20227D "92thSOOT

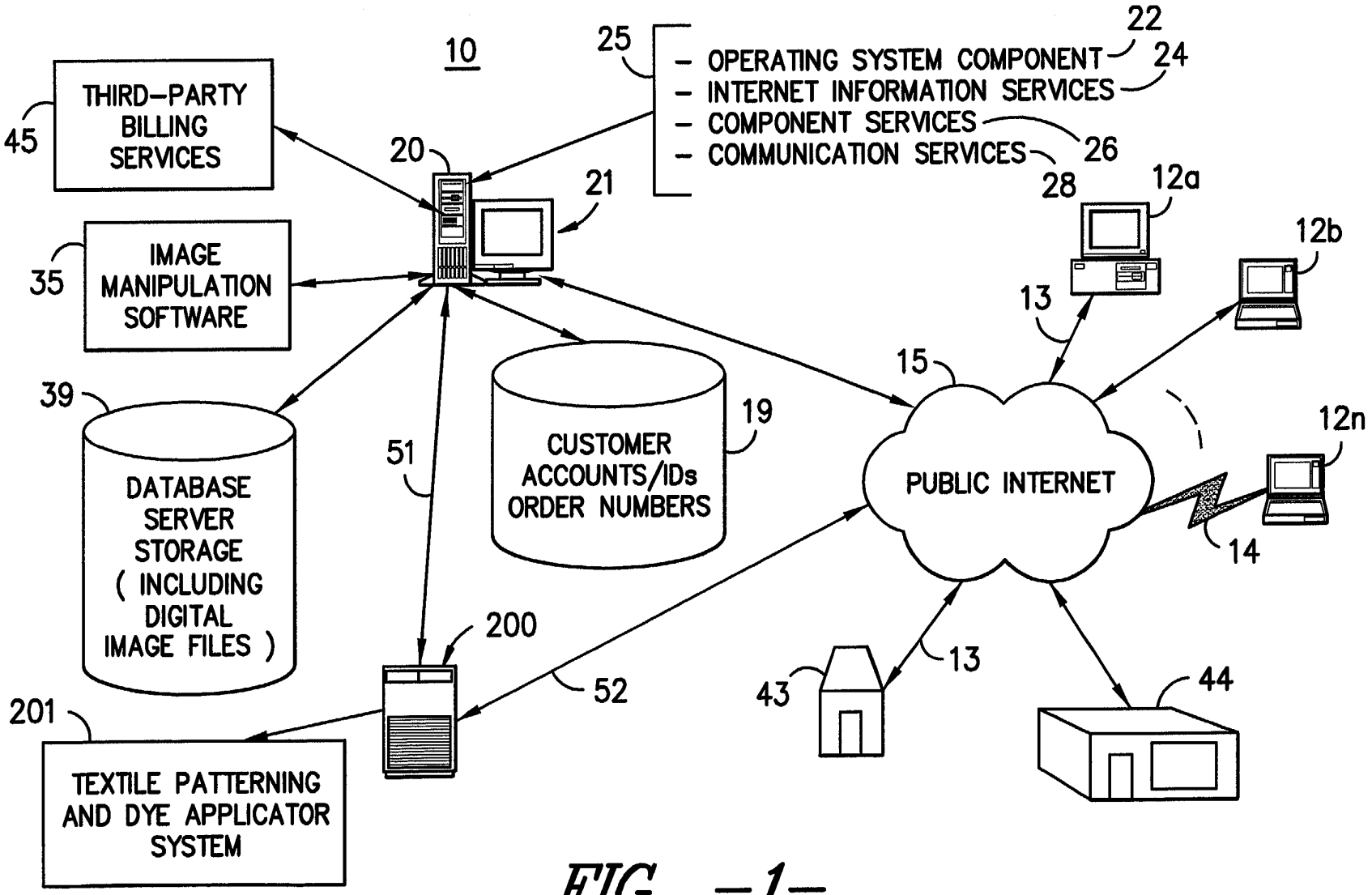


FIG. –1–

Customer Interaction Options

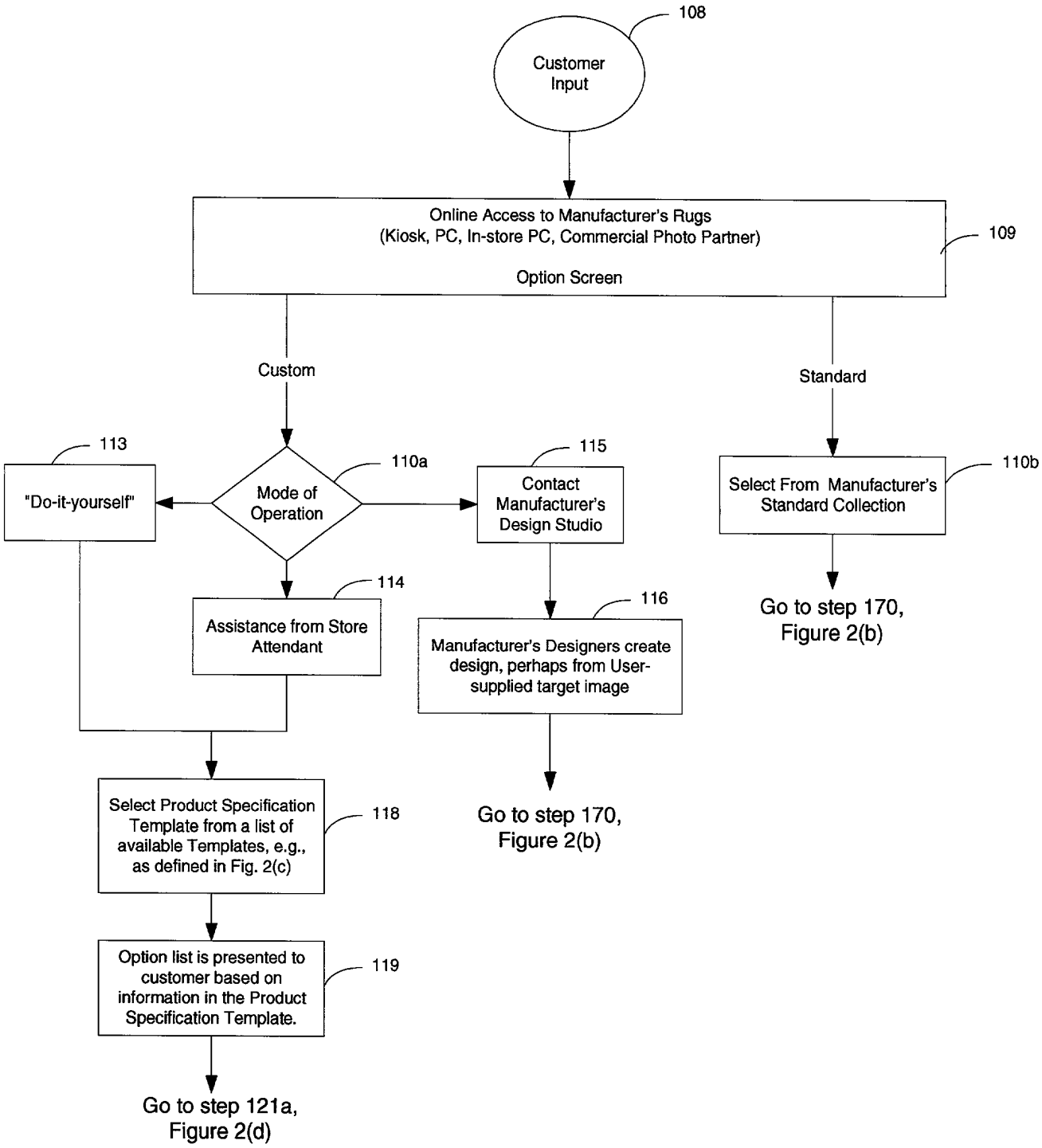


Figure 2(a)

Order Placement and Fulfillment Process

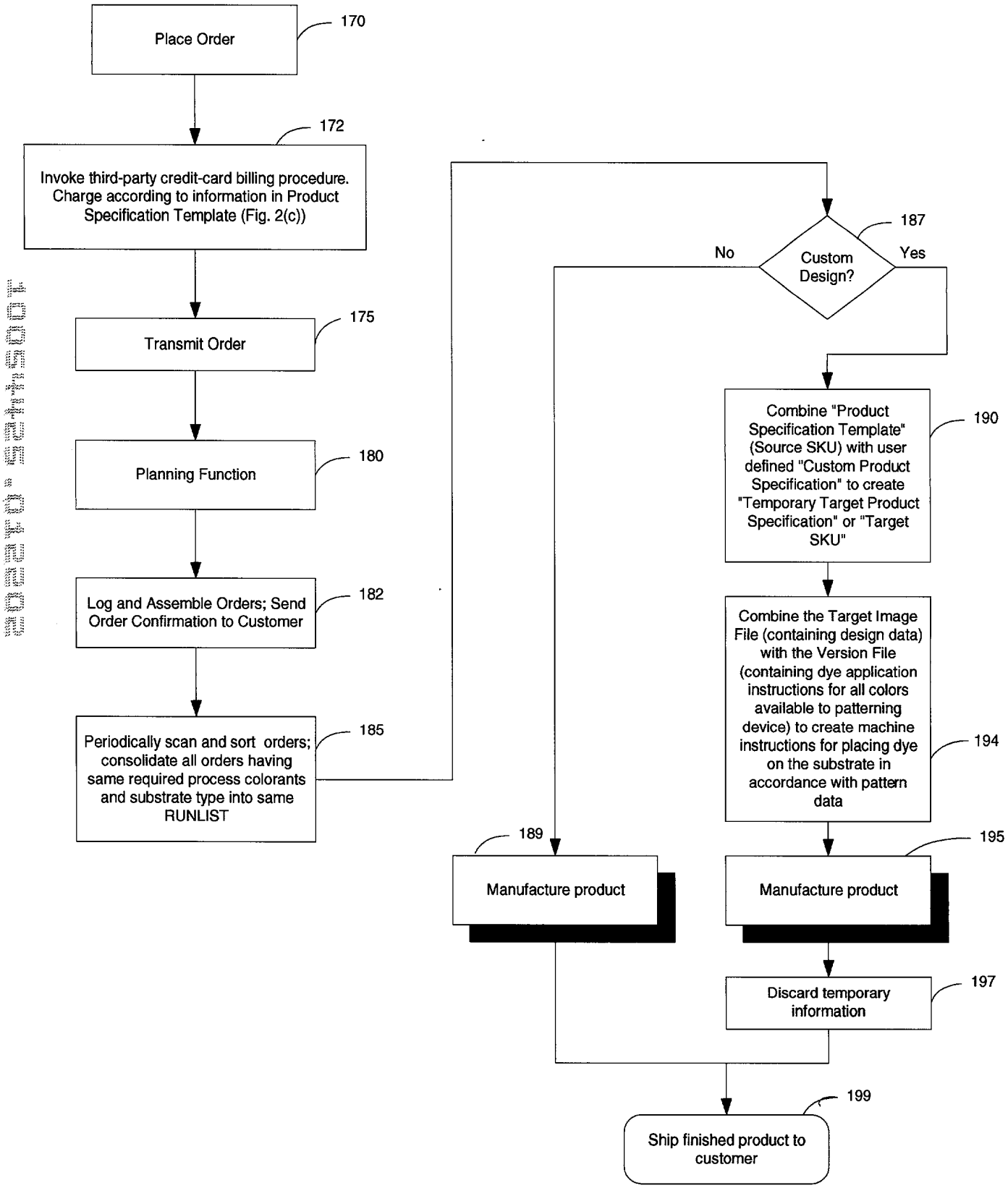


Figure 2(b)

Customizable Product Template Creation

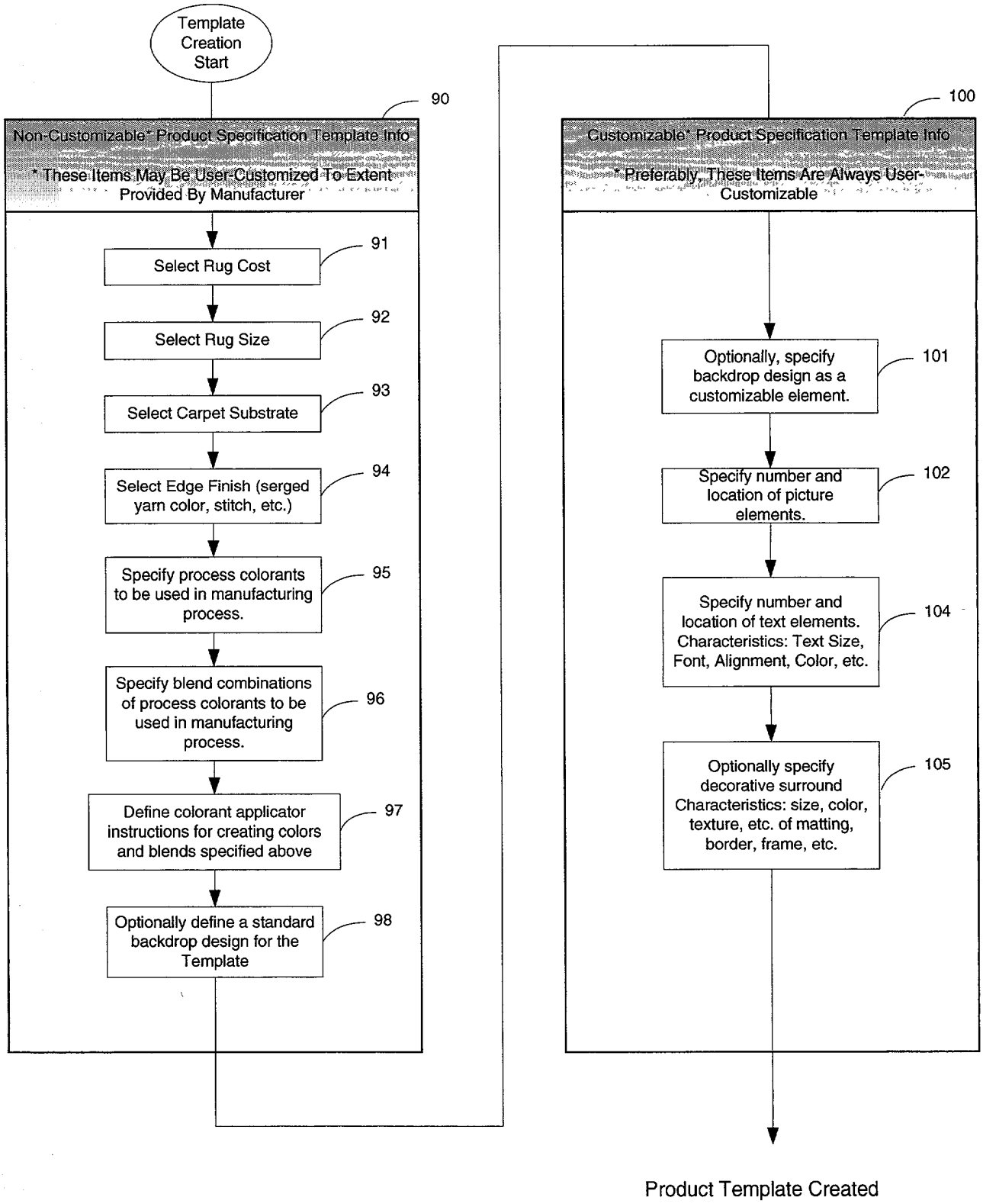


Figure 2(c)

Process Options

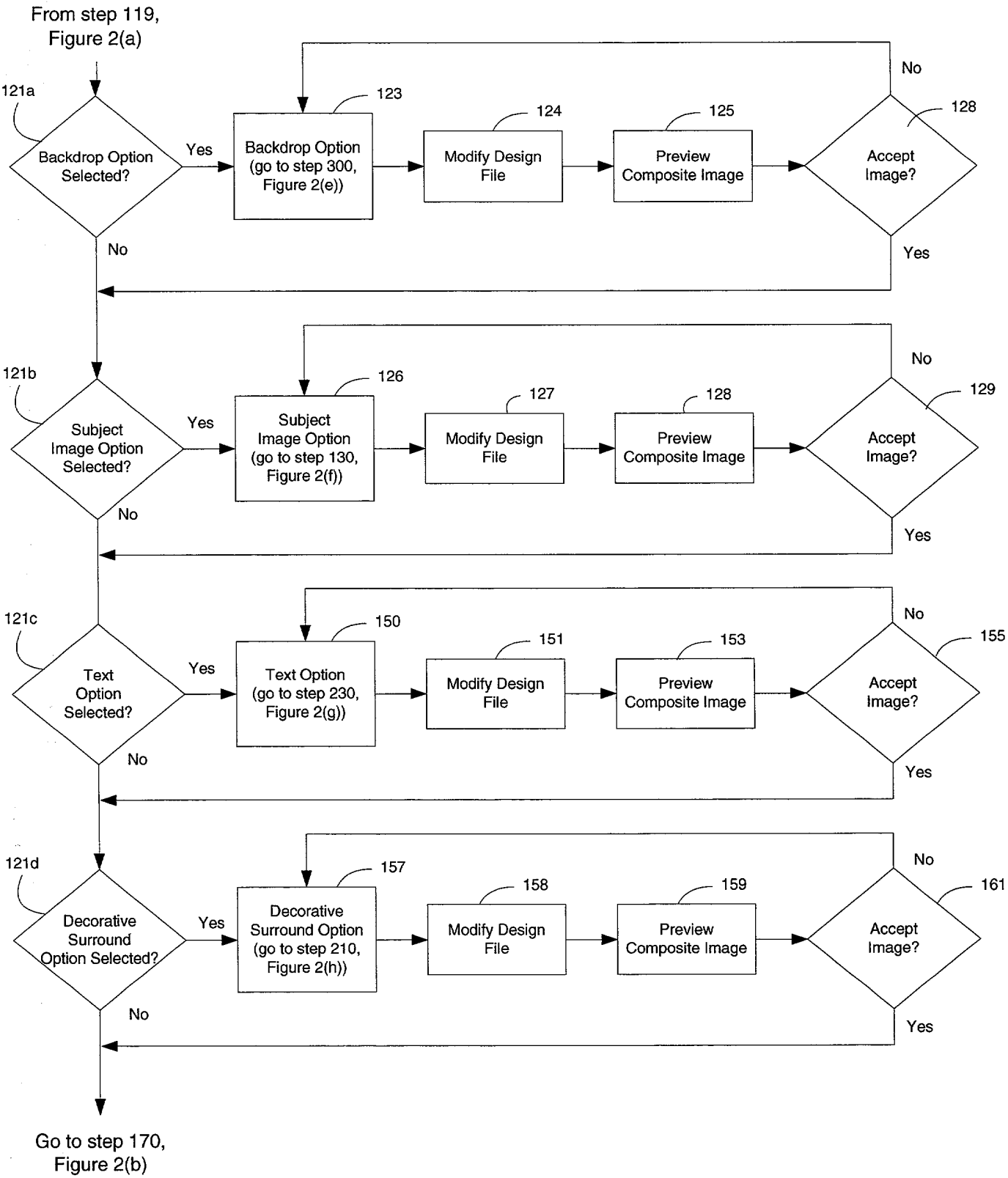


Figure 2(d)

Backdrop Option Flowchart

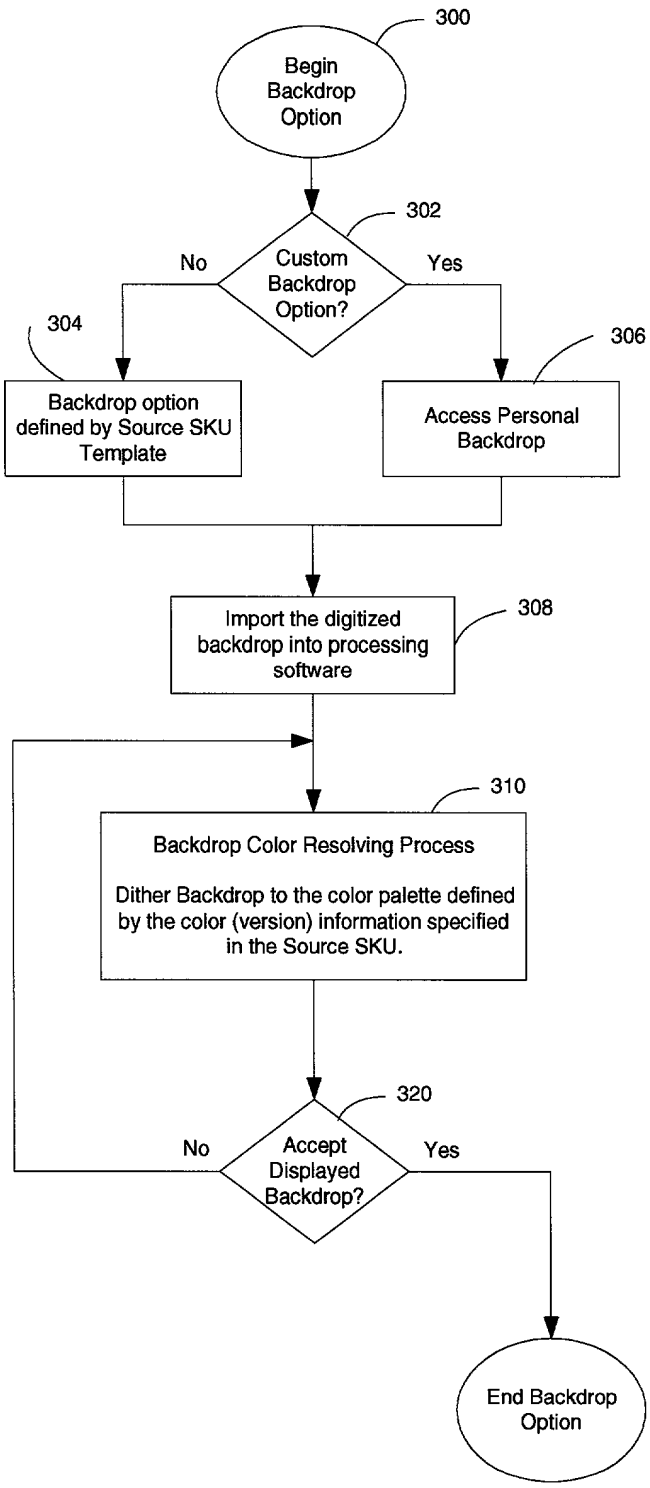


Figure 2(e)

Subject Image Option Flowchart

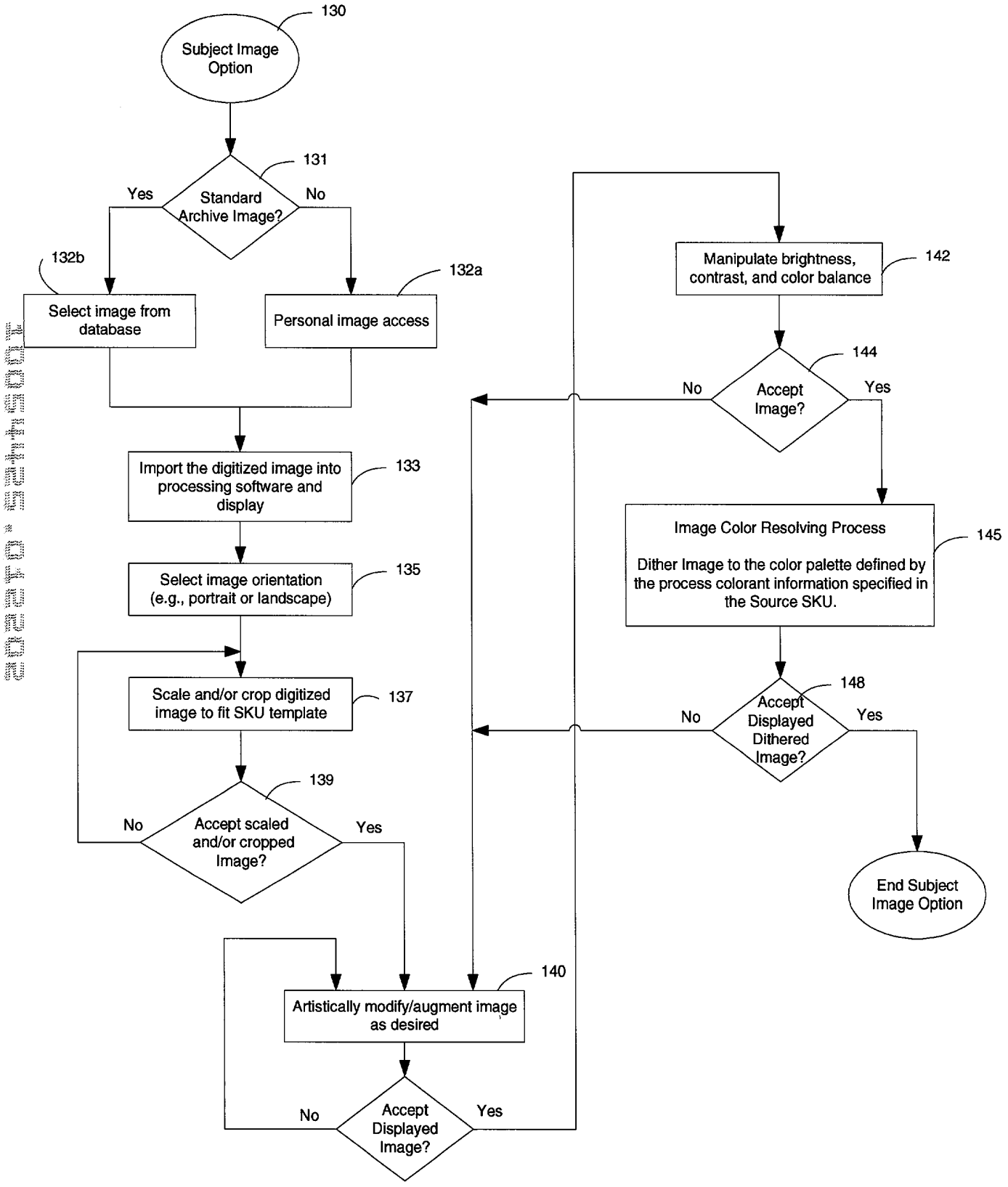


Figure 2(f)

Text Option Flowchart

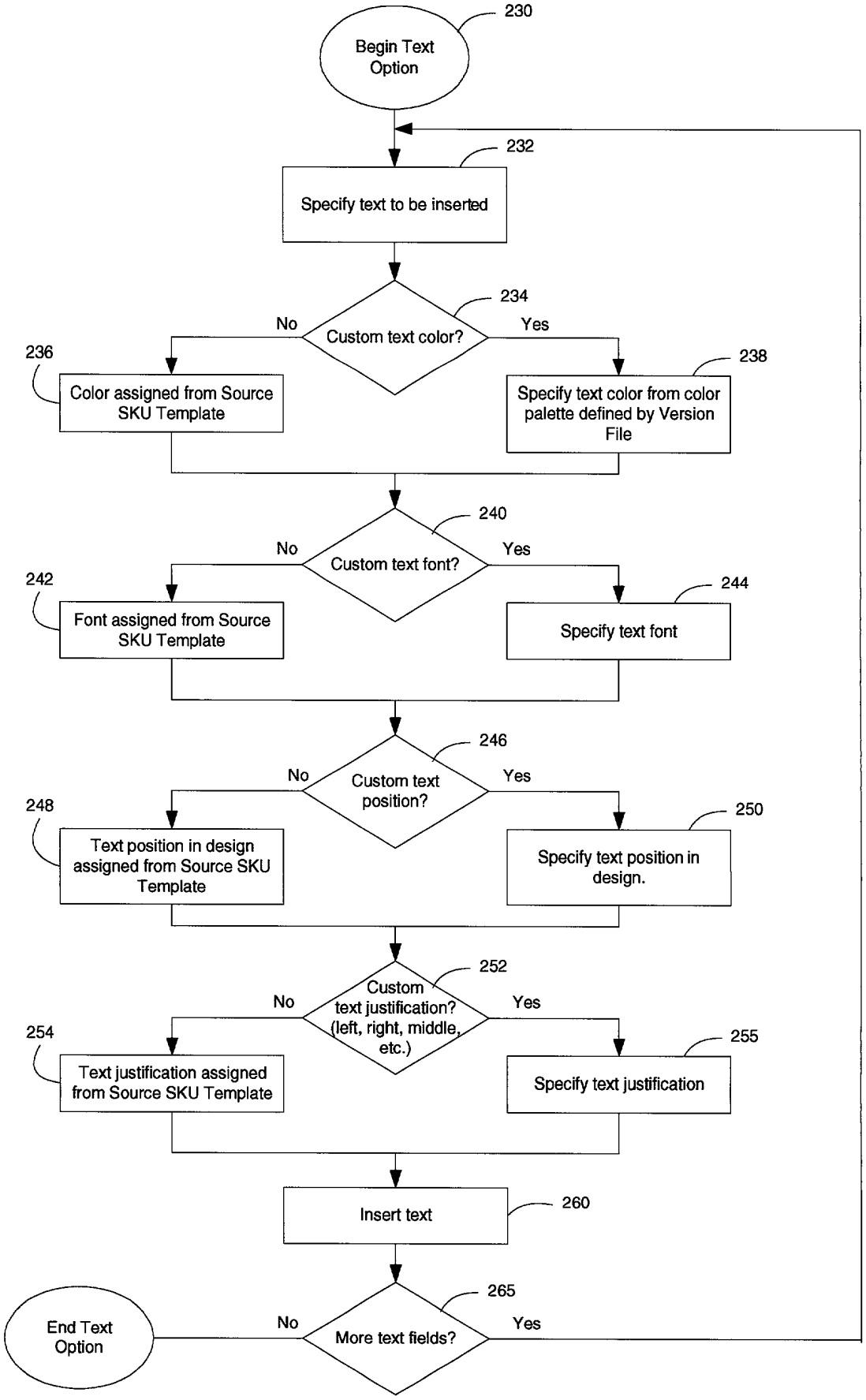


Figure 2(g)

10554525 - 062202

Decorative Surround Option Flowchart

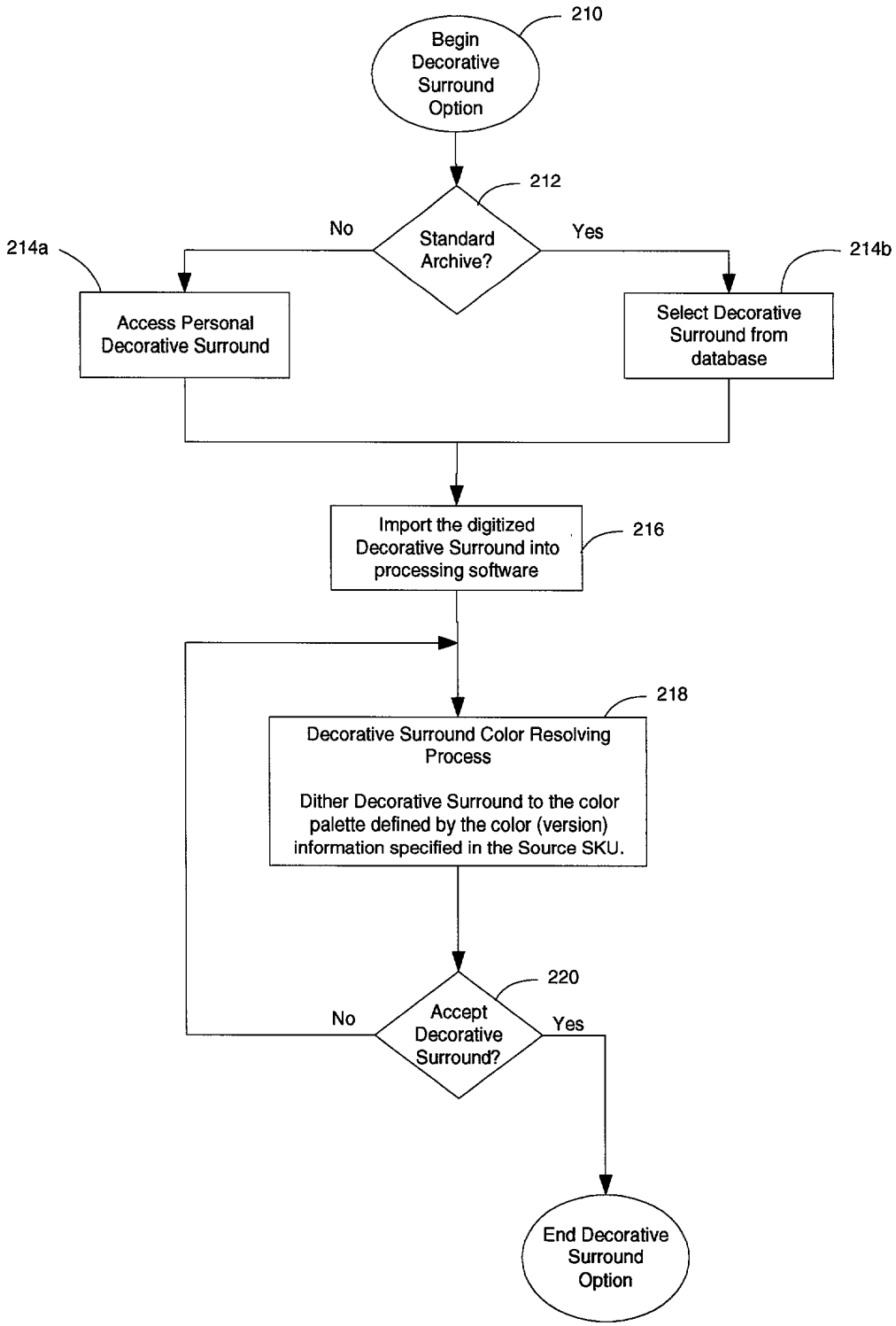


Figure 2(h)

P0054425.0420

200
Fine Arts Rug Studio
201
Famous Artists
204
Your Child's School Art
208
Your Favorite Vacation Photo
212
Your Favorite Pet
215
Your Favorite Rug Personalized
219
Your Own Creation

FIG. -3-

20220 "52nd SOT

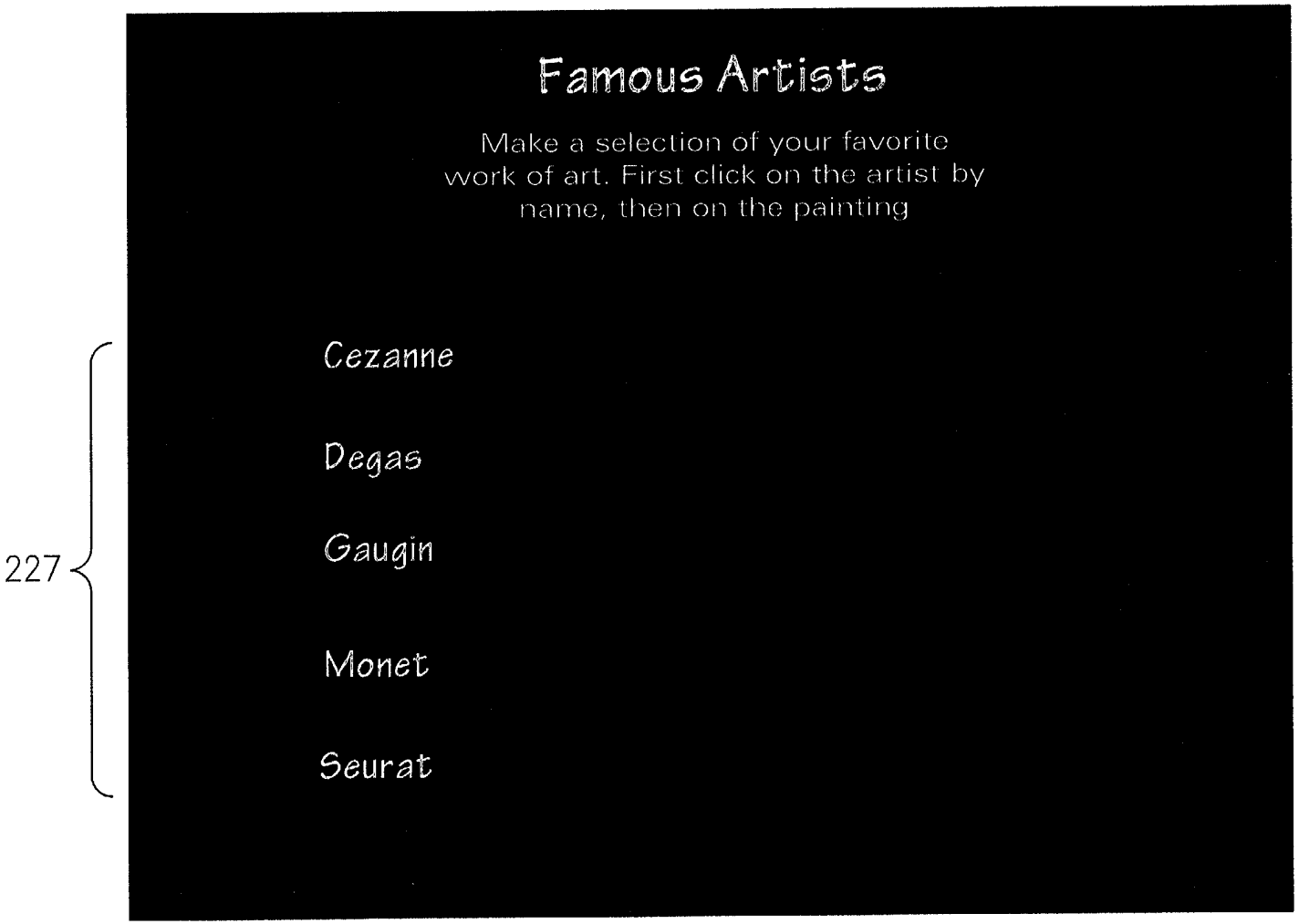
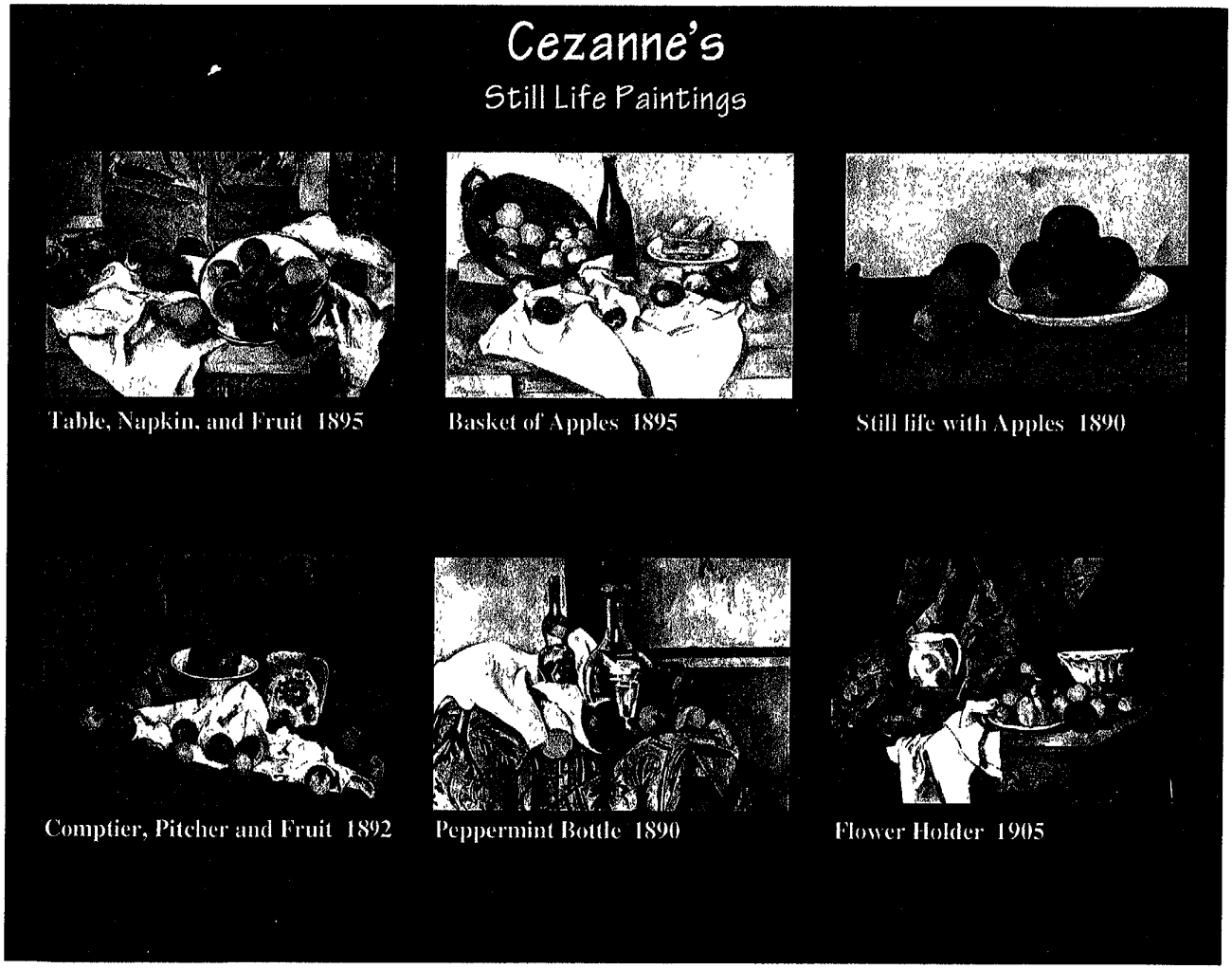


FIG. —4—


Cezanne's
Still Life Paintings
Table, Napkin, and Fruit 1895
Basket of Apples 1895
Still life with Apples 1890
Comptier, Pitcher and Fruit 1892
Peppermint Bottle 1890
Flower Holder 1905

230

233

FIG. -5-

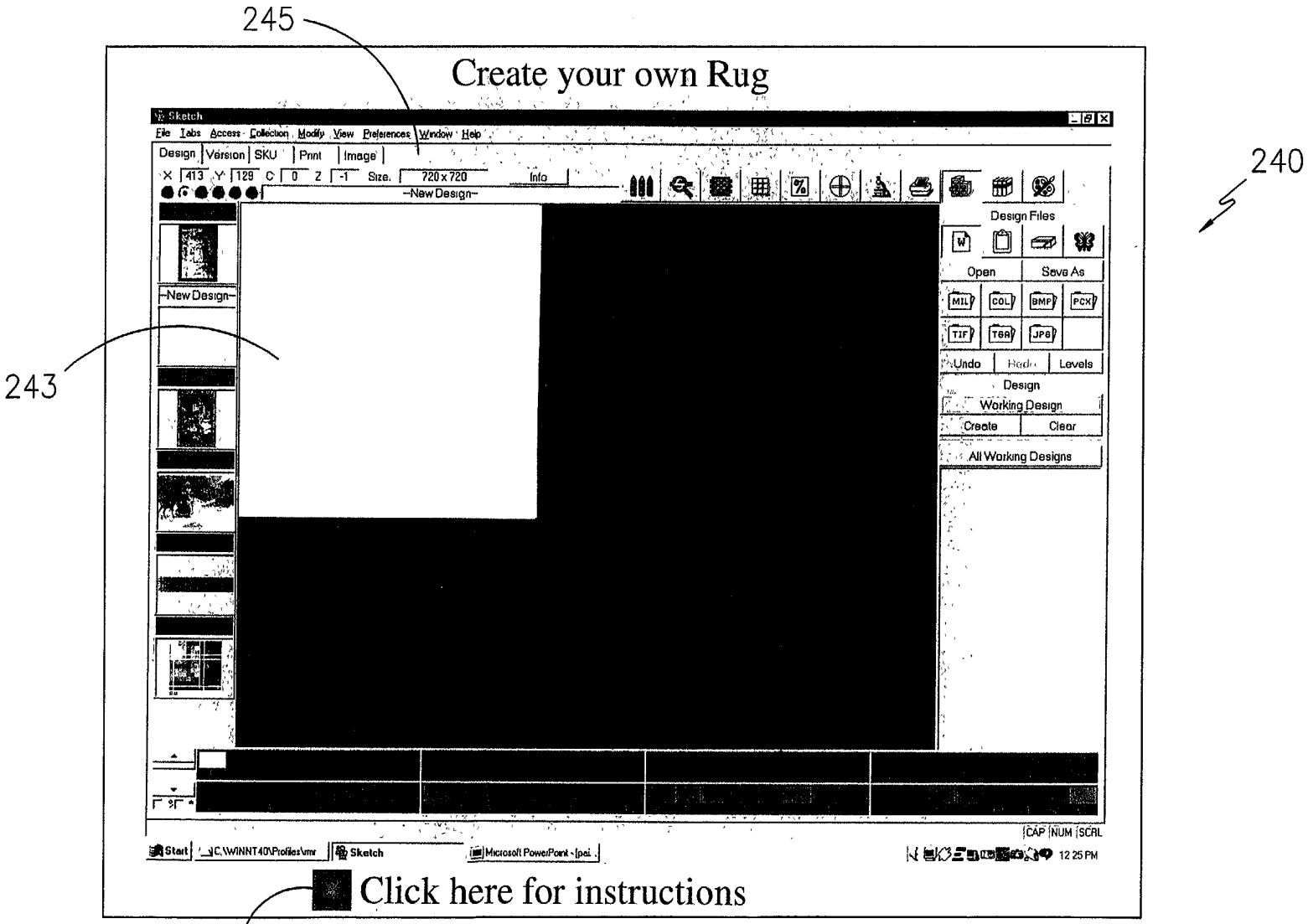

245
Create your own Rug
240
243
Sketch
File Tabs Access Collection Modify View Preferences Window Help
Design Version SKU Print Image
X 413 Y 129 C 0 Z -1 Size. 720 x 720 Info
New Design
Design Files
Open Save As
MIL COL BMP PCX
TIF TGA JPG
Undo Redo Levels
Design
Working Design
Create Clear
All Working Designs
CAP NUM SCRL
Start C:\WINNT40\Profiles\mr Sketch Microsoft PowerPoint - [pi..
12 25 PM
Click here for instructions
248

FIG. –6–

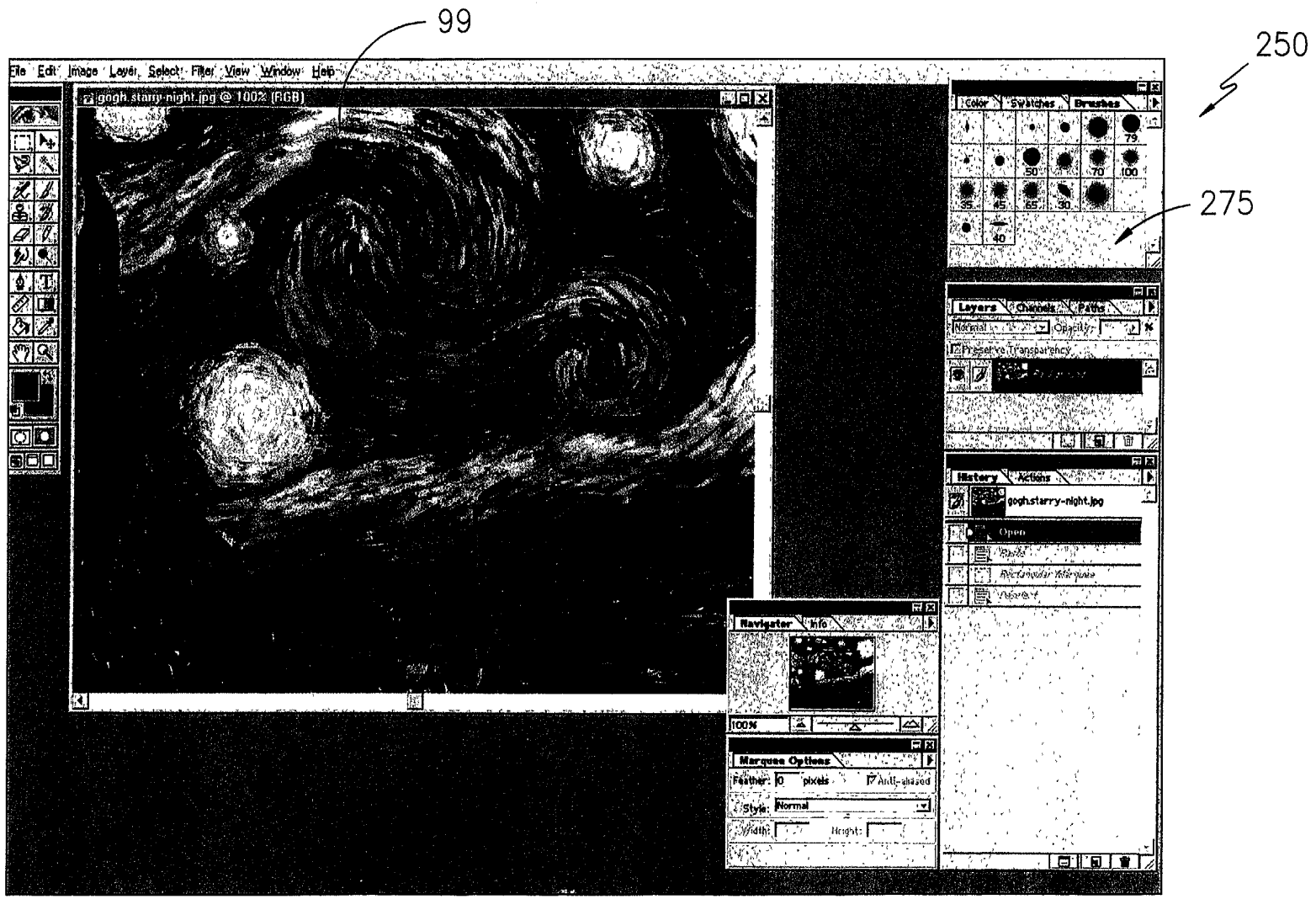

99
250
275
File Edit Image Layer Select Filter View Window Help
gogh.starry-night.jpg @ 100% (RGB)
Color Swatches Brushes
Layers Channels Paths
History Actions
gogh.starry-night.jpg
Open
Navigator Info
Marquee Options
Feather: 0 pixels
Anti-aliased
Style: Normal
Width:
Height:

FIG. –7–

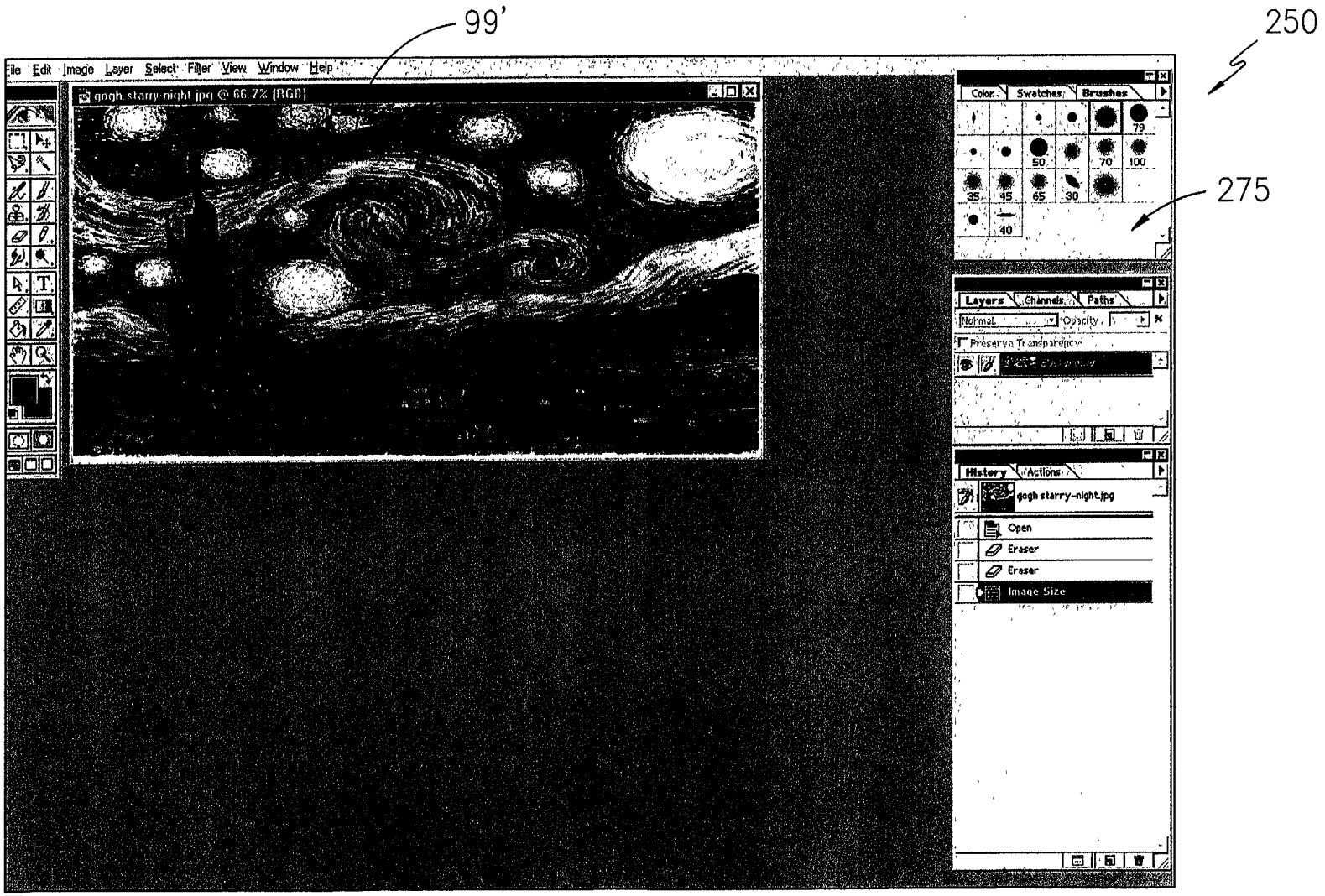

99'
250
275
File Edit Image Layer Select Filter View Window Help
gogh starry night jpg @ 66.7% (RGB)
Color Swatches Brushes
79
50
70
100
35
45
65
30
40
Layers Channels Paths
Normal
Opacity
Preserve Transparency
History Actions
gogh starry-night.jpg
Open
Eraser
Eraser
Image Size

FIG. –8–

2022TO* S2rthS00T

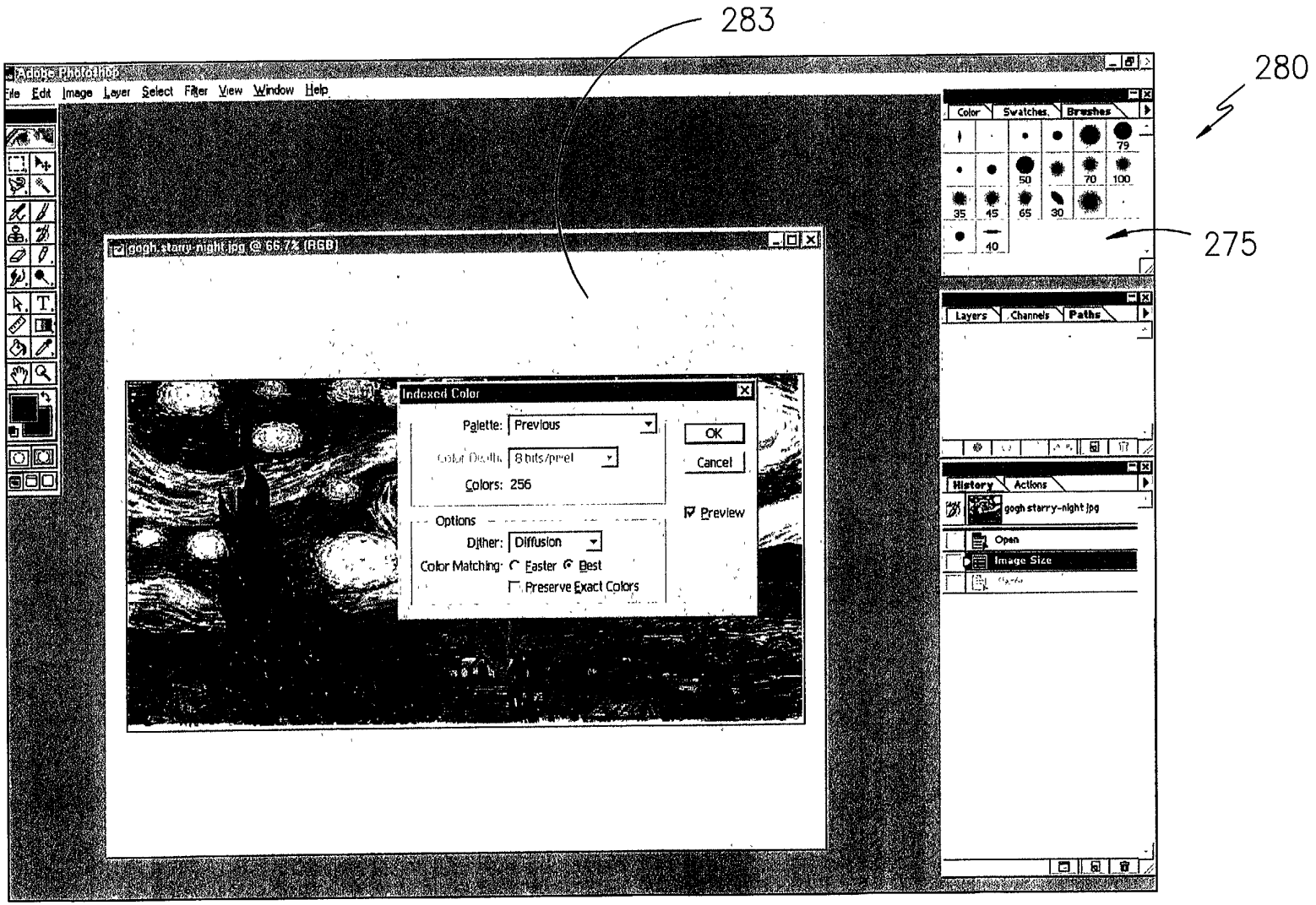


FIG. –9(a)–

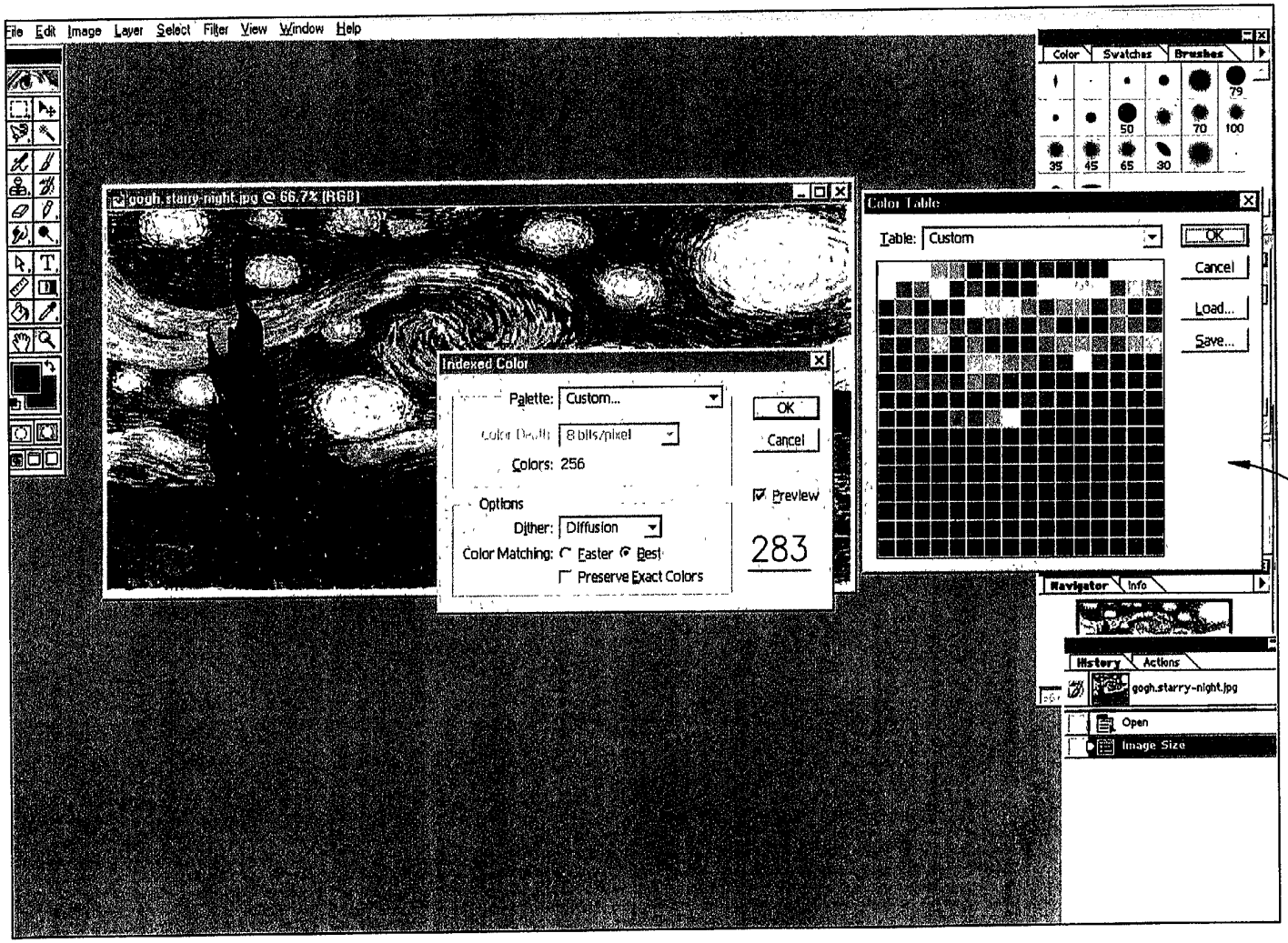

File Edit Image Layer Select Filter View Window Help
gogh.starry-night.jpg @ 66.7% (RGB)
Indexed Color
Palette: Custom...
Color Depth: 8 bits/pixel
Colors: 256
OK
Cancel
Preview
Options
Dither: Diffusion
Color Matching: Faster Best
Preserve Exact Colors
283
Color Table
Table: Custom
OK
Cancel
Load...
Save...
Color
Swatches
Brushes
Navigator
Info
History
Actions
gogh.starry-night.jpg
Open
Image Size
285
288

FIG. –9(b)–

Docket No. 42425-0120

FIG. -10(a)-

20020702.92th.SOT

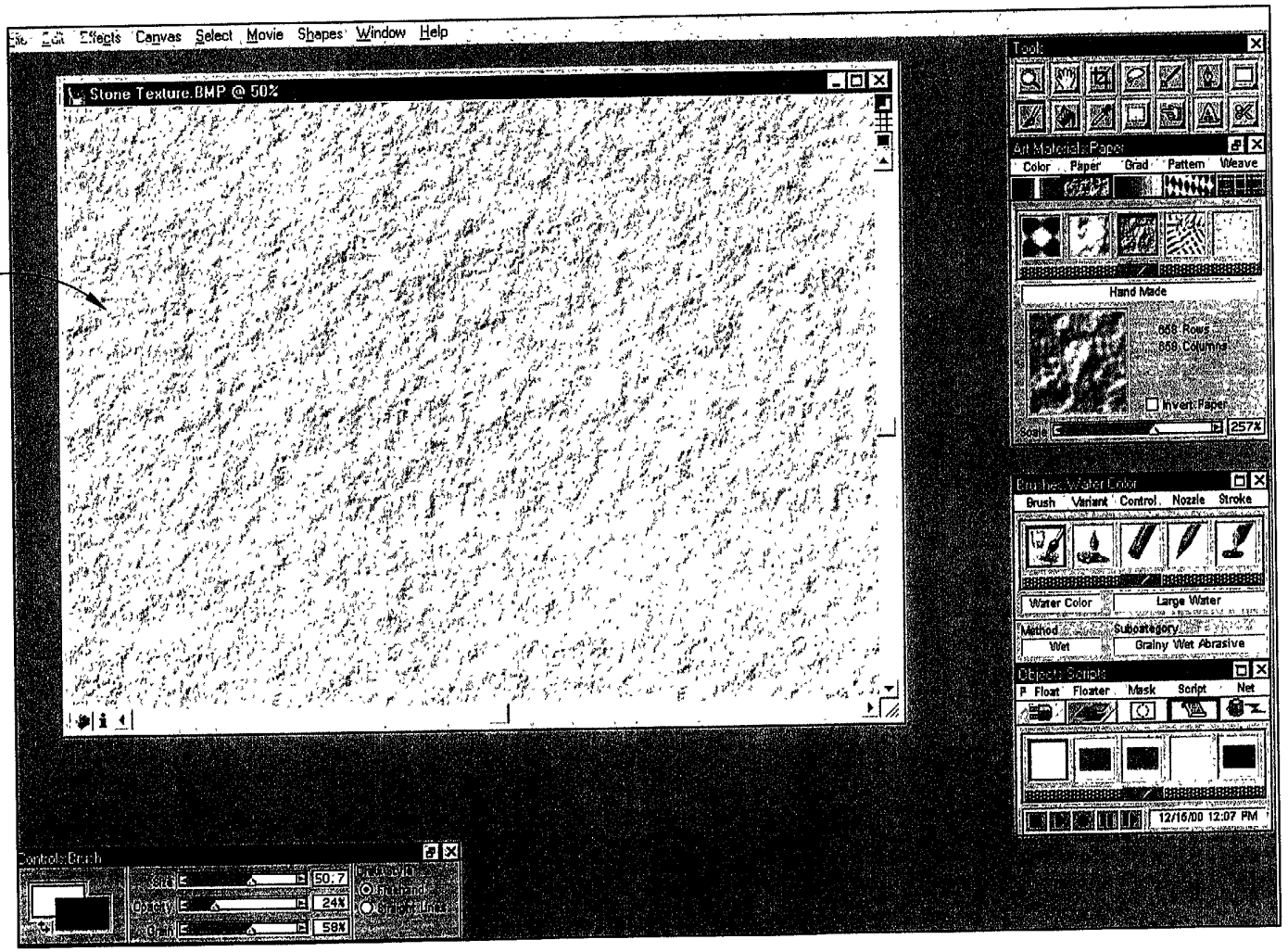


FIG. –10(b)–

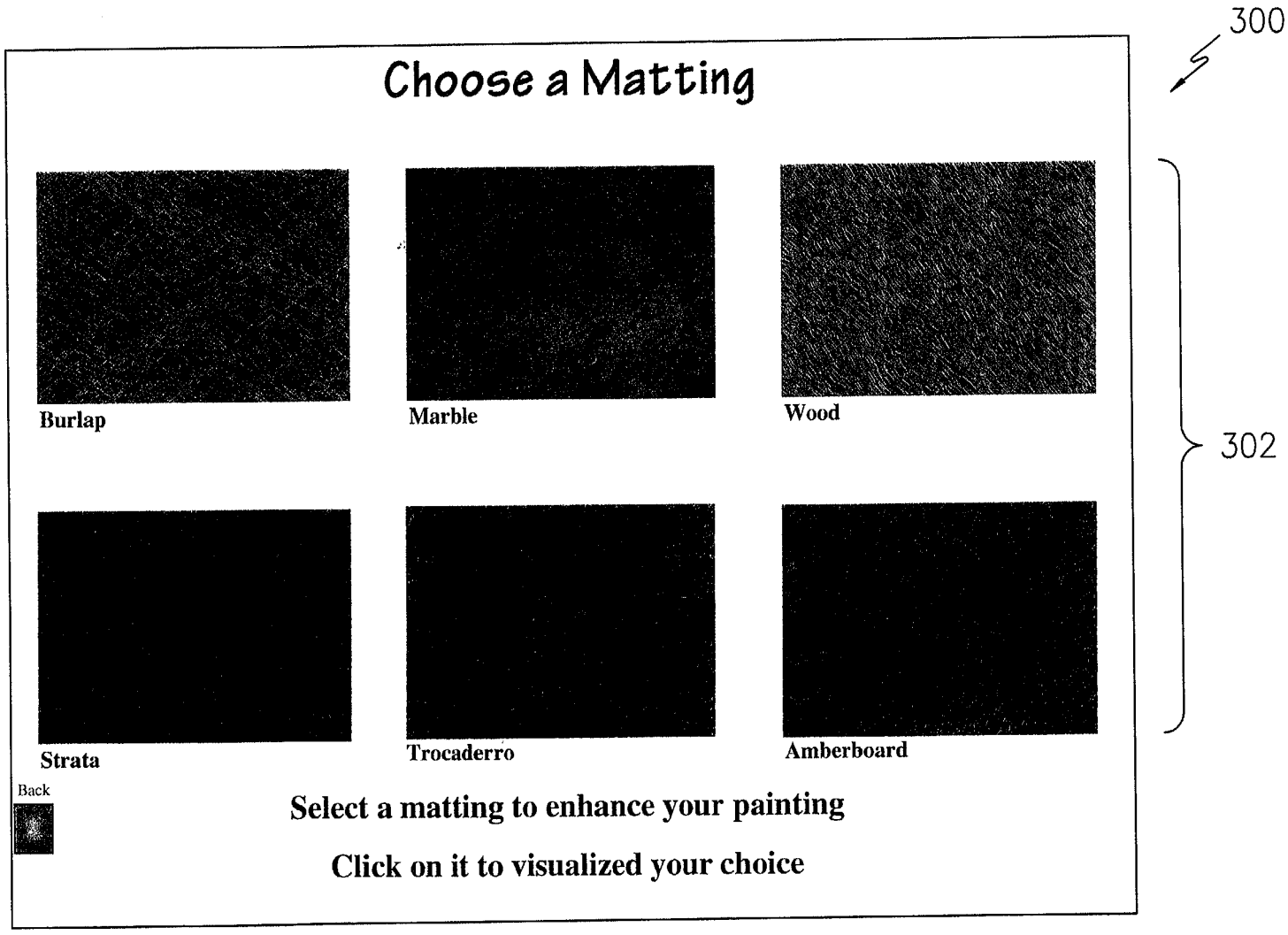

300
Choose a Matting
Burlap
Marble
Wood
302
Strata
Trocaderro
Amberboard
Back
Select a matting to enhance your painting
Click on it to visualized your choice

FIG. –11–

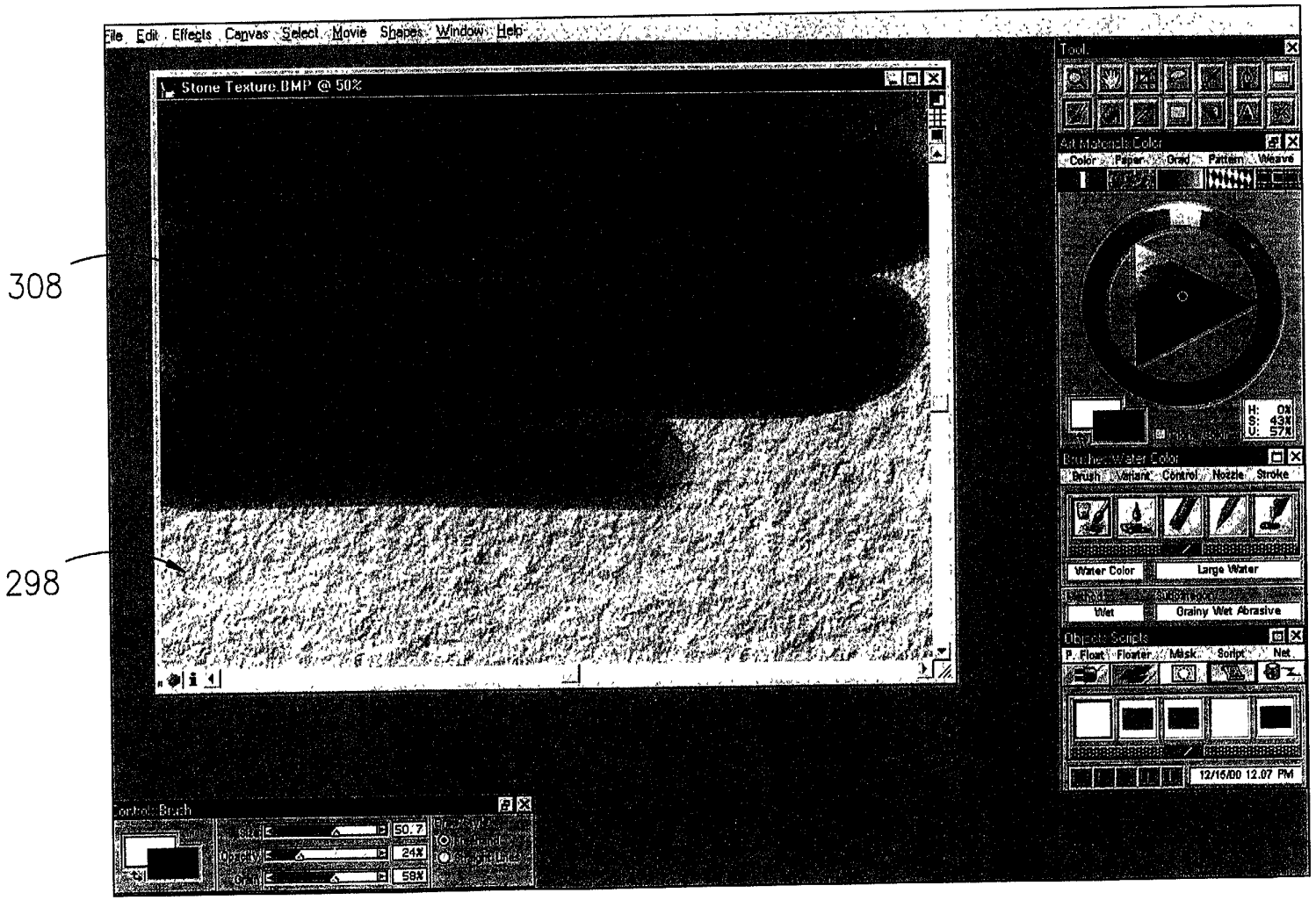

305
308
298
File Edit Effects Canvas Select Movie Shapes Window Help
Stone Texture.BMP @ 50%
Tool
Art Materials Color
Color Paper Grad Pattern Weave
Brushes Water Color
Brush Variant Control Nozzle Stroke
Water Color
Large Water
Wet
Grainy Wet Abrasive
Object Scripts
P. Float Floater Mask Script Net
12/15/00 12:07 PM
Control: Brush
50.7
24%
58%

FIG. –12–

2022TO 52thSOOT

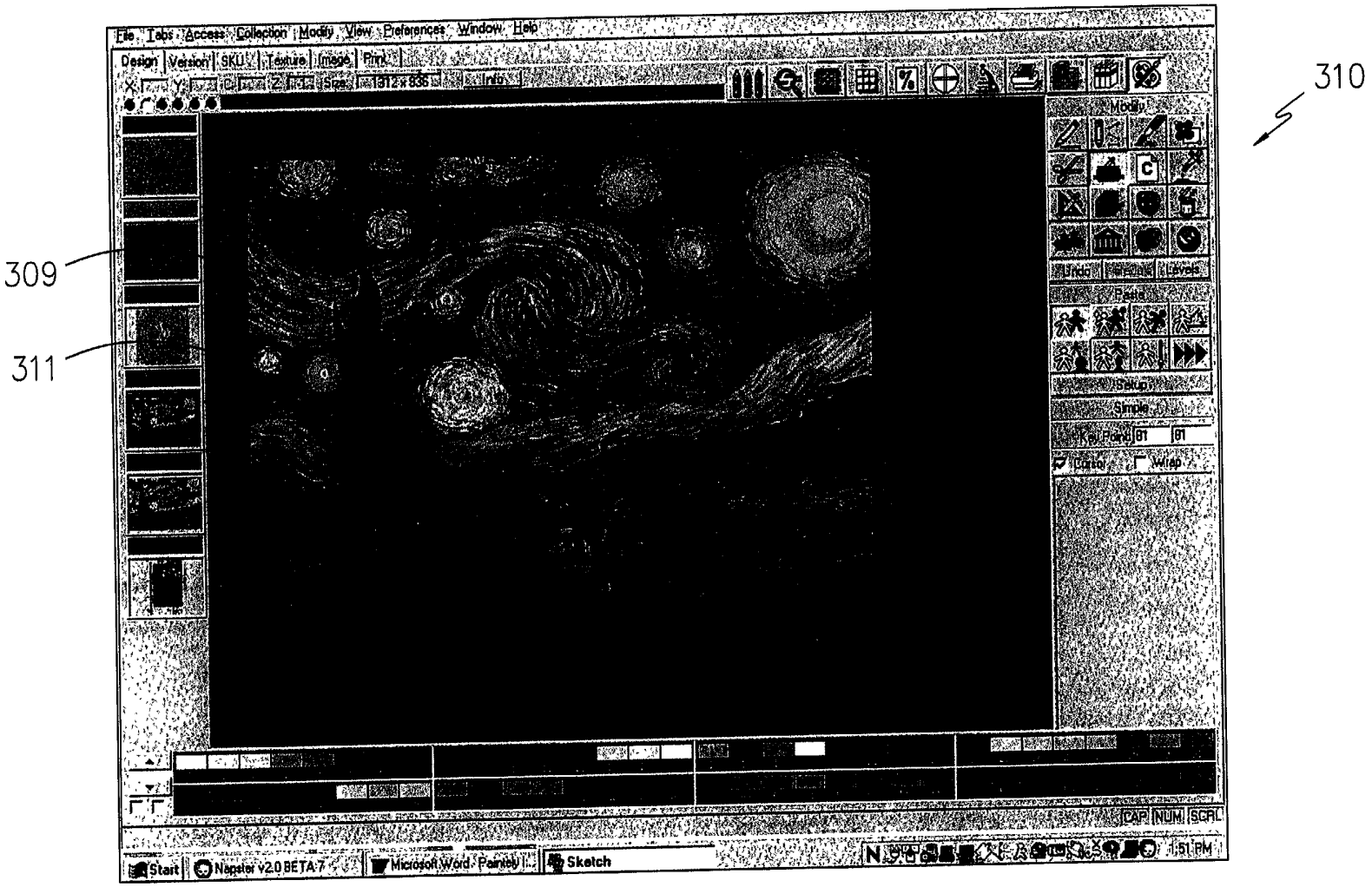


FIG. –13–

20227 0 " 52-th 5007

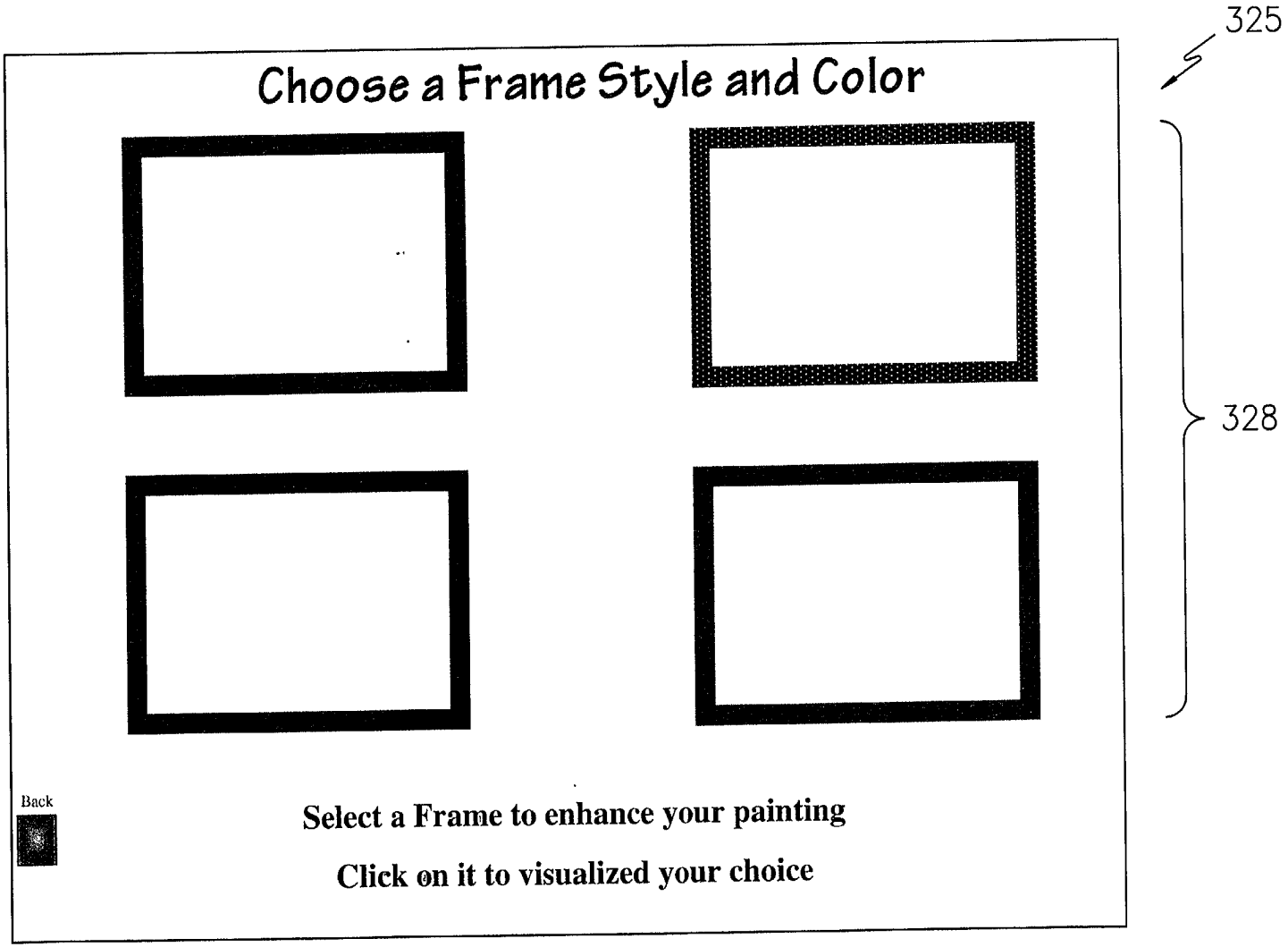


FIG. –14–

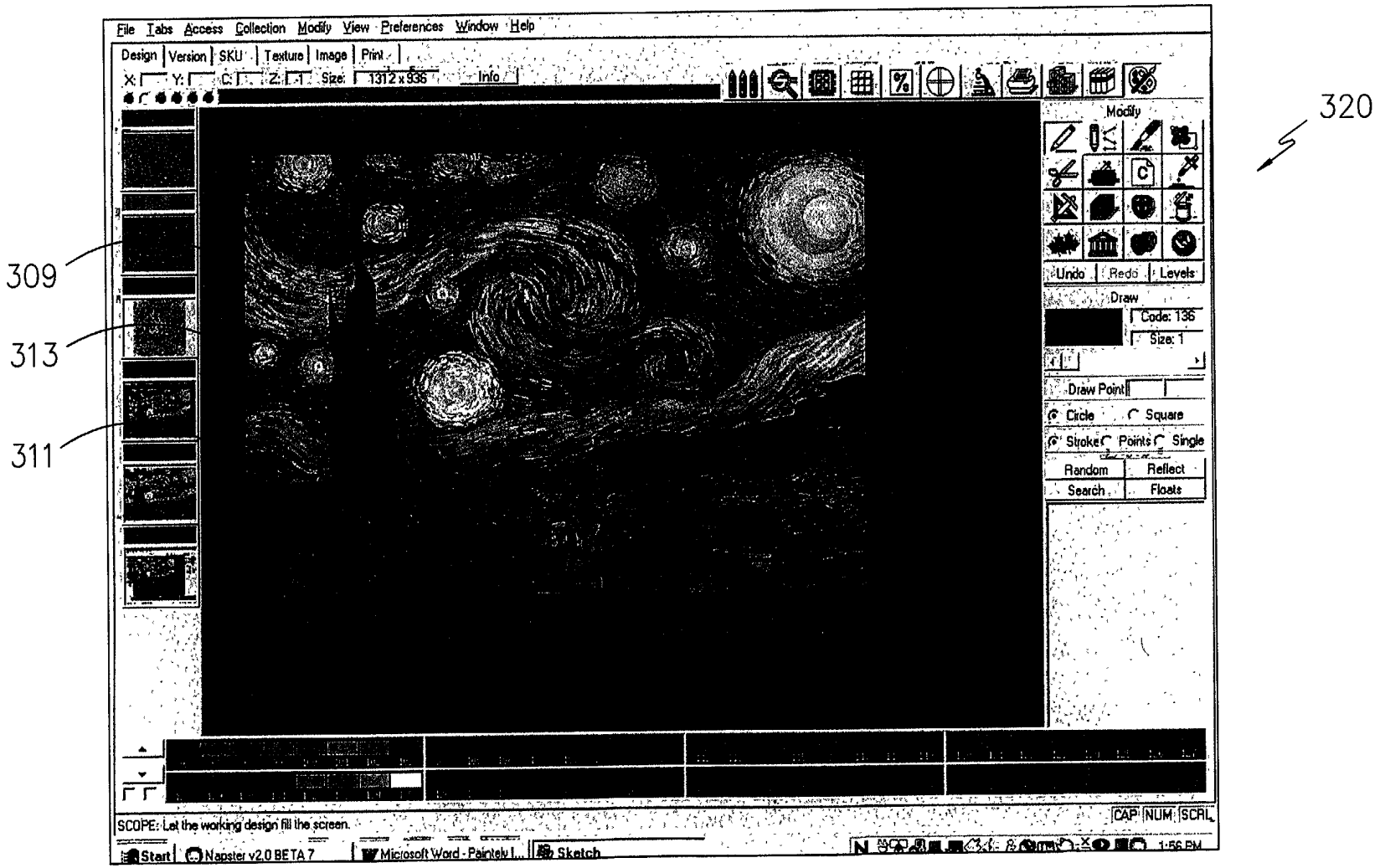

File Tabs Access Collection Modify View Preferences Window Help
Design Version SKU Texture Image Print
X: Y: C: Z: Size: 1312 x 936 Info
Modify
Undo Redo Levels
Draw
Code: 136
Size: 1
Draw Point
Circle Square
Stroke Points Single
Random Reflect
Search Floats
SCOPE: Let the working design fill the screen.
CAP NUM SCRL
Start Napster v2.0 BETA 7 Microsoft Word - Paintely I... Sketch
1:56 PM
309
313
311
320

FIG. –15–

10054425 - 012202

FIG. -16-

Docket: 04220

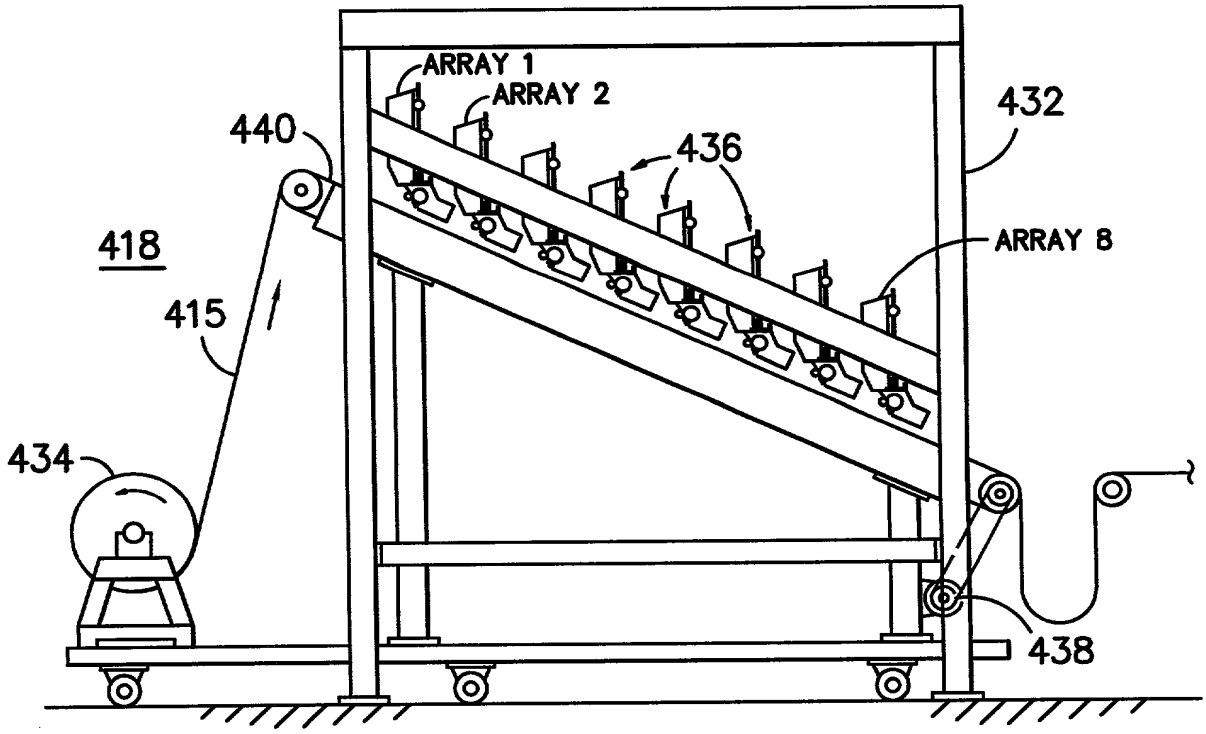


FIG. –17–

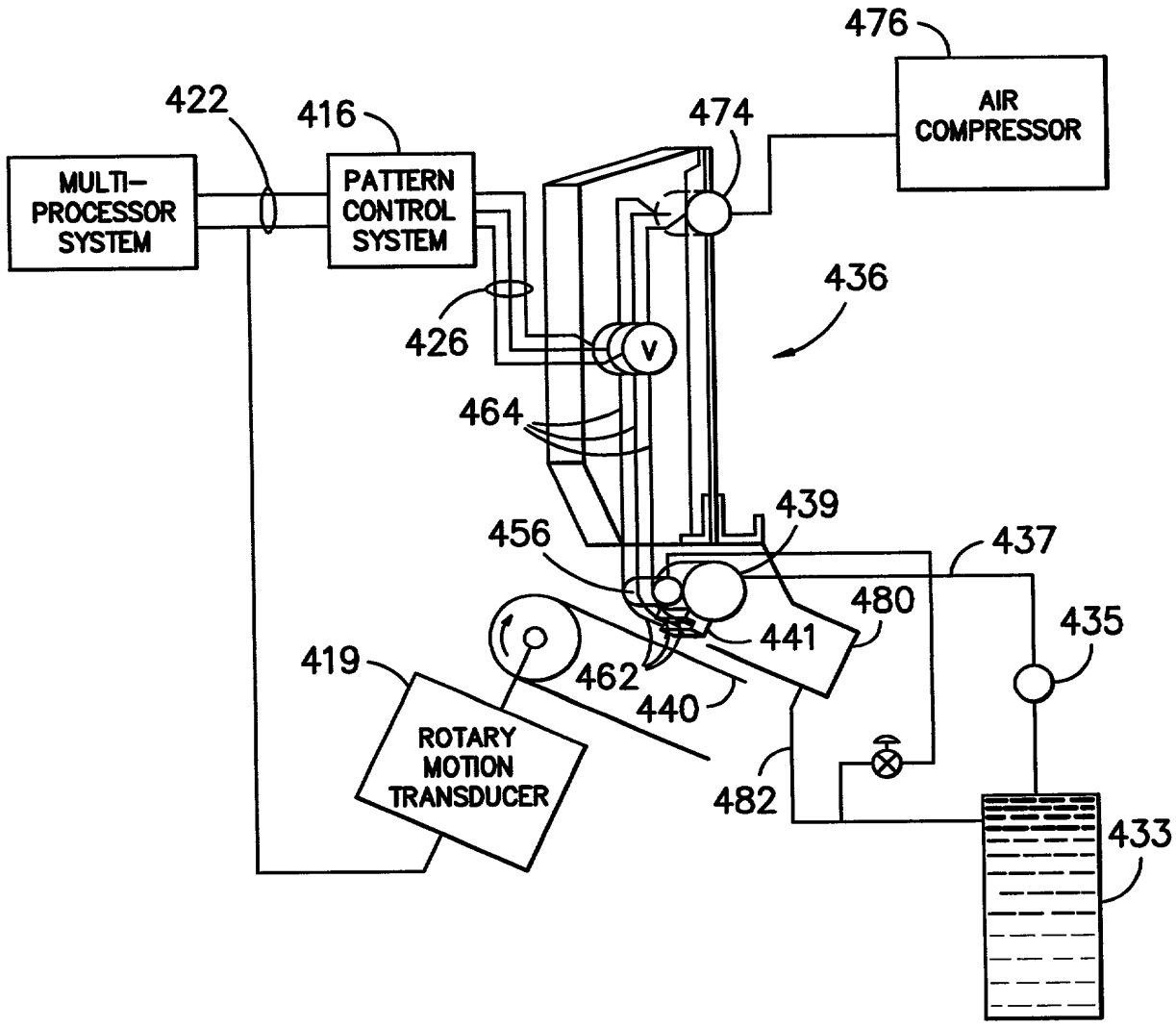
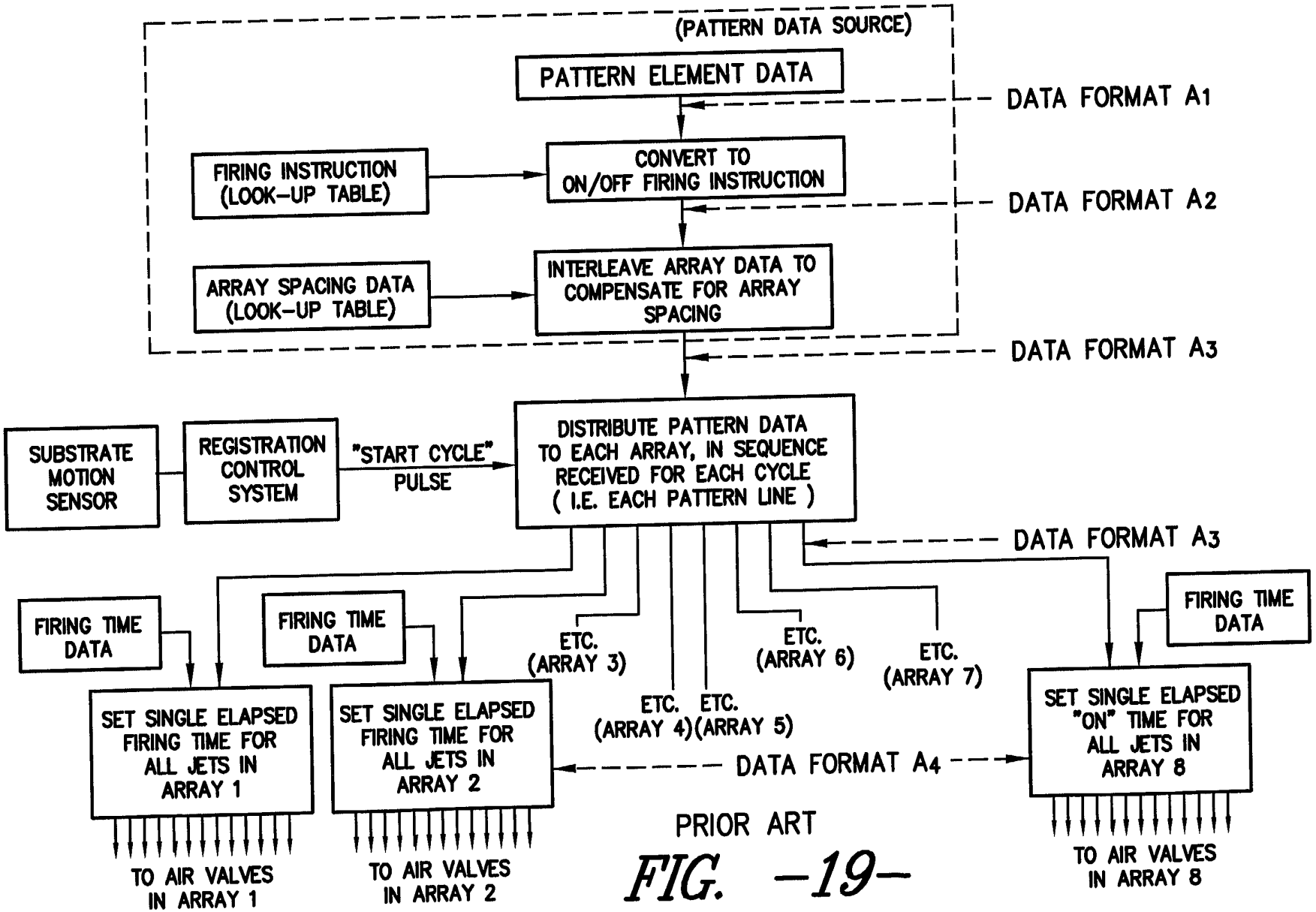

476
AIR COMPRESSOR
422
416
474
MULTI-PROCESSOR SYSTEM
PATTERN CONTROL SYSTEM
436
426
V
464
439
456
437
480
435
441
419
462
440
ROTARY MOTION TRANSDUCER
482
433

FIG. -18-

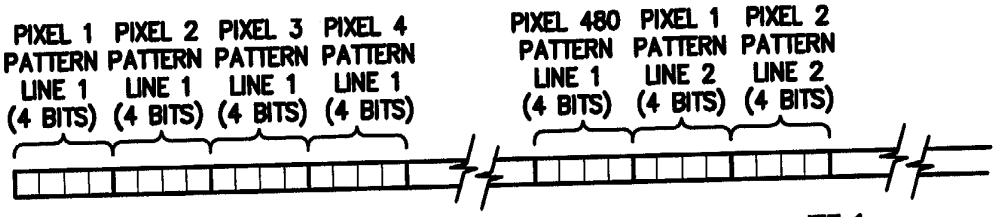
2022TO" 92thSOOT



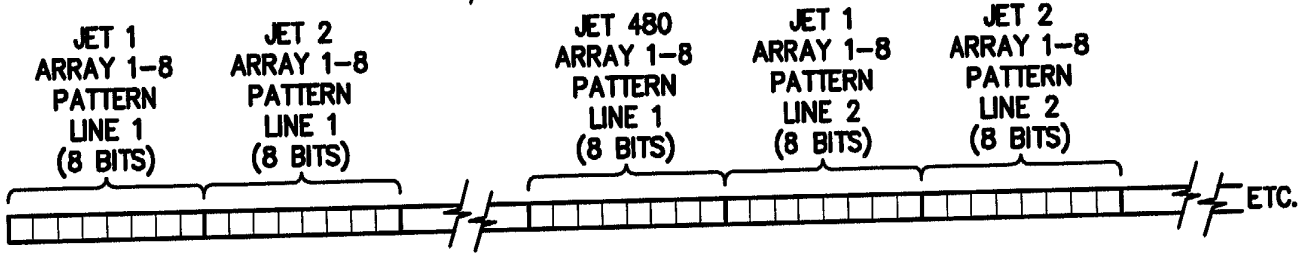
PRIOR ART

FIG. –19–

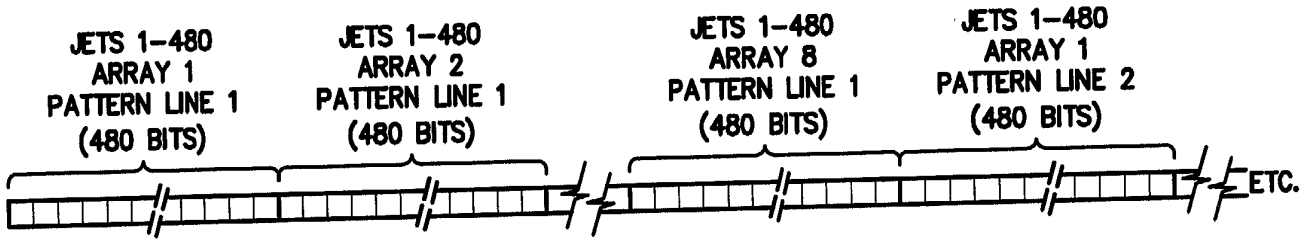
DATA FORMAT A1 :
4 BIT GROUP
DEFINES 1 OF 16 PRE-DEFINED
PATTERN ELEMENTS



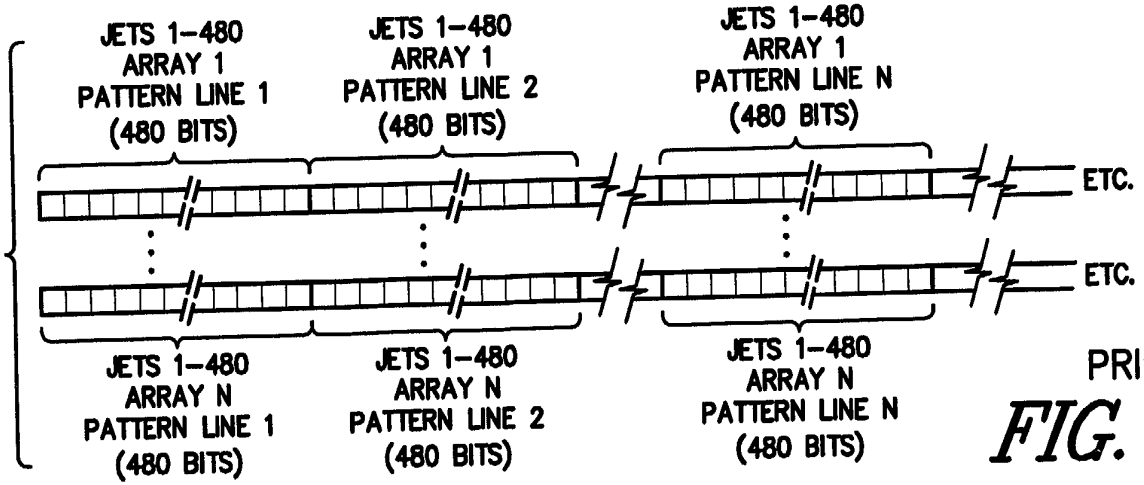
DATA FORMAT A2 :
EACH BIT INDICATES
"FIRE / NO FIRE"
FOR EACH JET ON
EACH ARRAY



DATA FORMAT A3 :
(EACH BIT INDICATES
"FIRE / NO FIRE" FOR EACH JET;
FIRING TIME TO BE PRESET)



DATA FORMAT A4 :
(EACH BIT INDICATES
"FIRE / NO FIRE" FOR EACH JET;
FIRING TIME IS PRESET)



PRIOR ART

FIG. -20-

20220° 52thSOOT

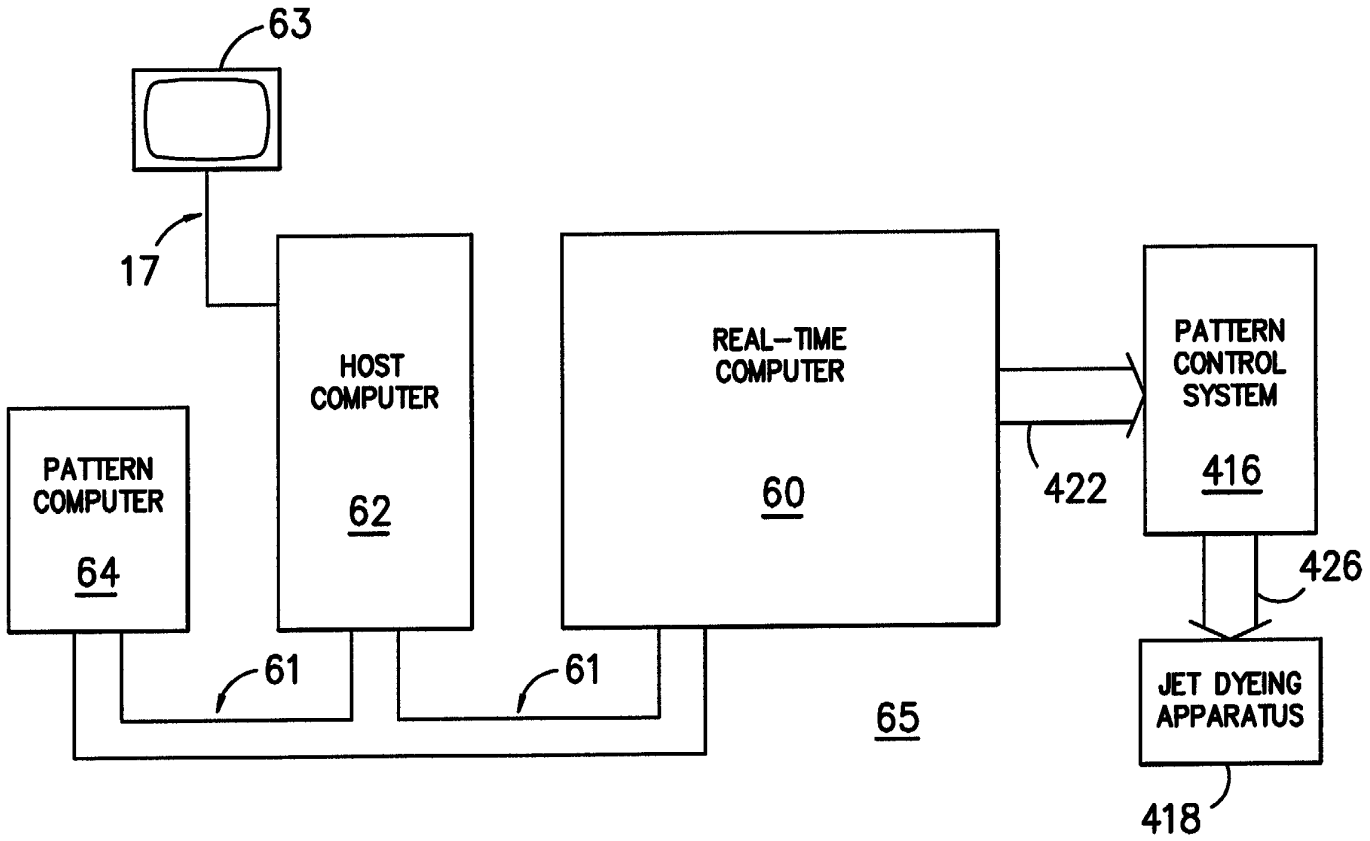


FIG. -21-

4005425 - 042202

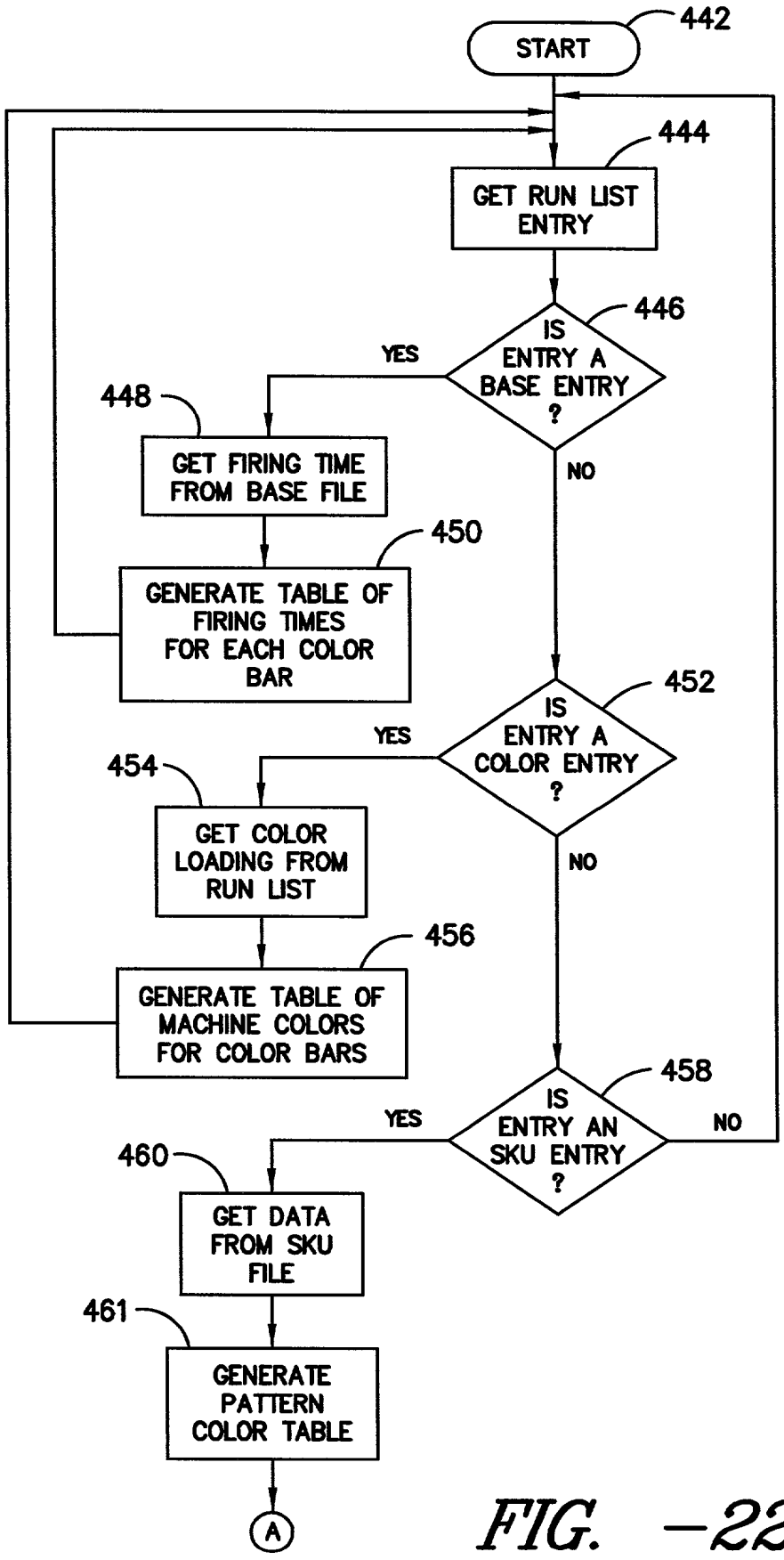


FIG. -22-

FOOTER.OLYMPUS

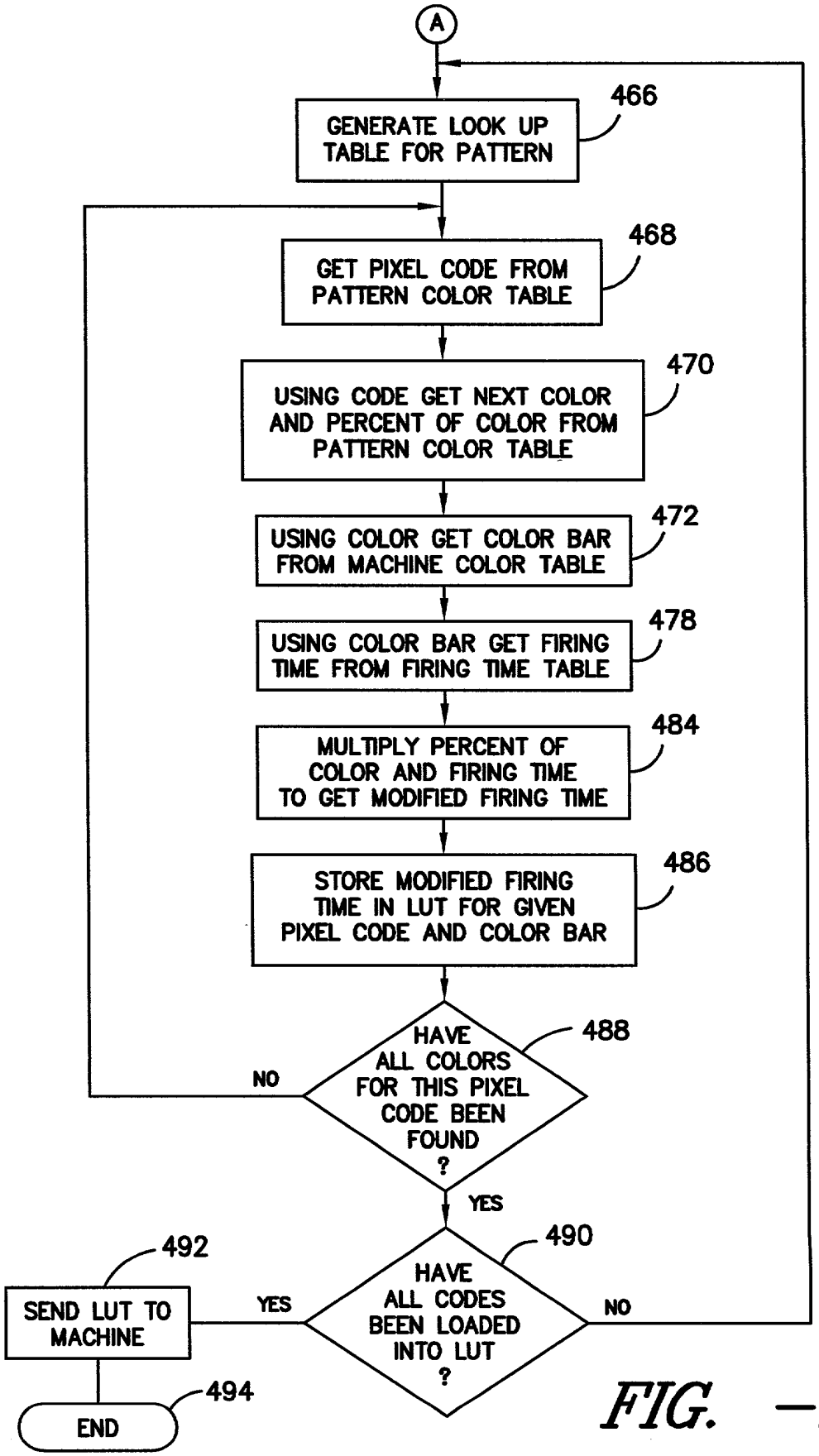


FIG. -23-

BASE WXYZ

BAR	FT
1	10
2	10
3	20
4	15

FIG. -24A-

MACHINE CONFIG.

COLOR	BAR
RED	1
BLUE	2
GREEN	3
YELLOW	4

FIG. -24B-

SKU ABC

CODE	COLOR
A	RED
B	BLUE

FIG. -24C-

BASE WXYZ

BAR	FT
1	10
2	10
3	20
4	15

FIG. -25A-

MACHINE CONFIG.

COLOR	BAR
RED	1
BLUE	2
GREEN	3
YELLOW	4

FIG. -25B-

SKU ADE

CODE	COLOR
A	50% RED, 50% BLUE
C	GREEN

FIG. -25C-

LUT'S

CODES	1	2	3	4
A	10MS	0	0	0
B	0	10MS	0	0

FIG. -24D-

LUT'S

	1	2	3	4
A	5MS	5MS	0	0
C	0	0	20MS	0

FIG. -25D-

LUT'S

	1	2	3	4
A	0	0	20MS	0
B	0	10MS	0	0
C	5MS	2.5MS	0	3.75MS

FIG. -25E-

LUT'S

	1	2	3	4	5
A	0	0	0	0	10MS
B	0	10MS	0	0	0

FIG. -25F-

5,544,225 - 01/2005

2022TO 52thSOT

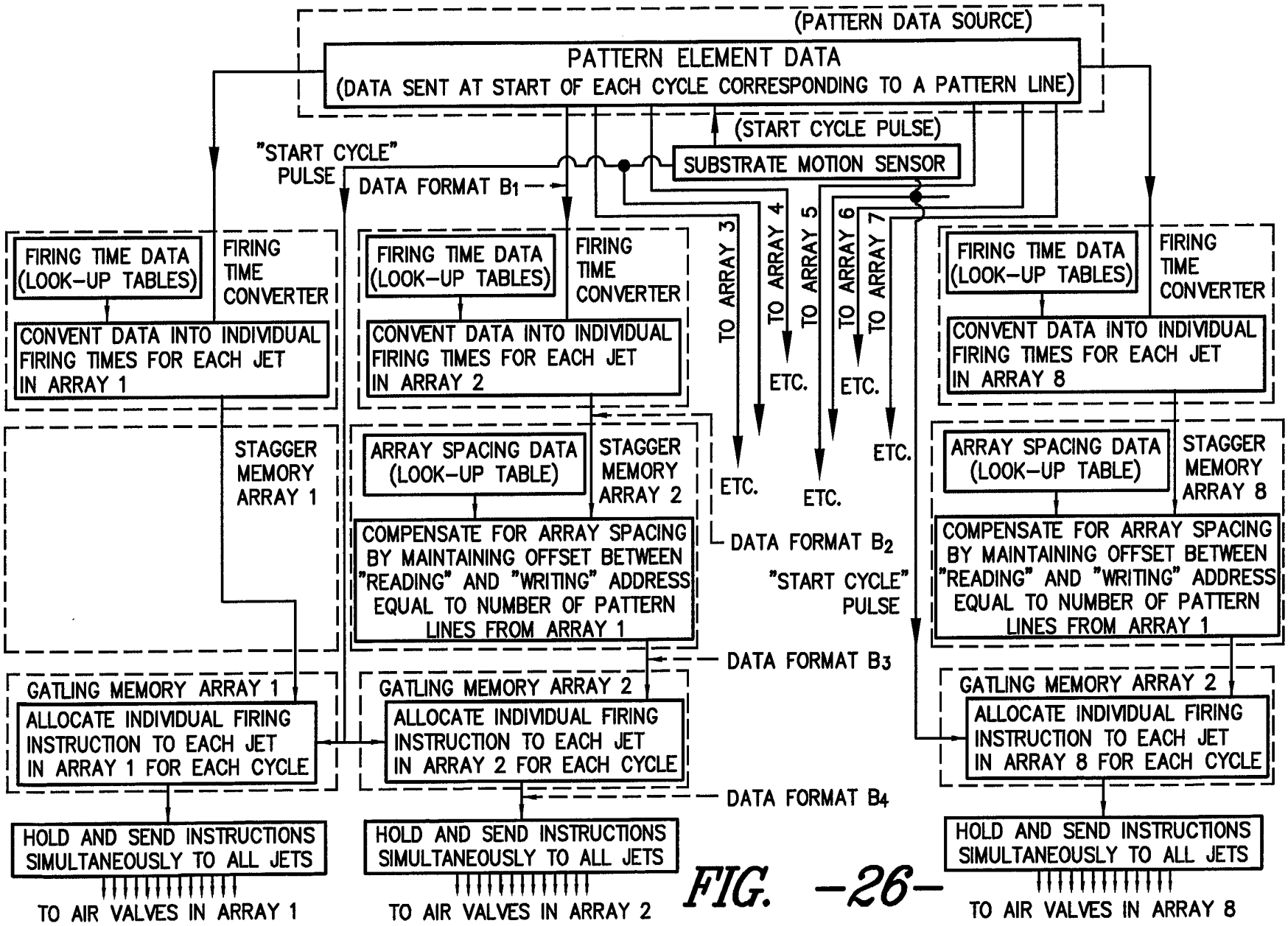
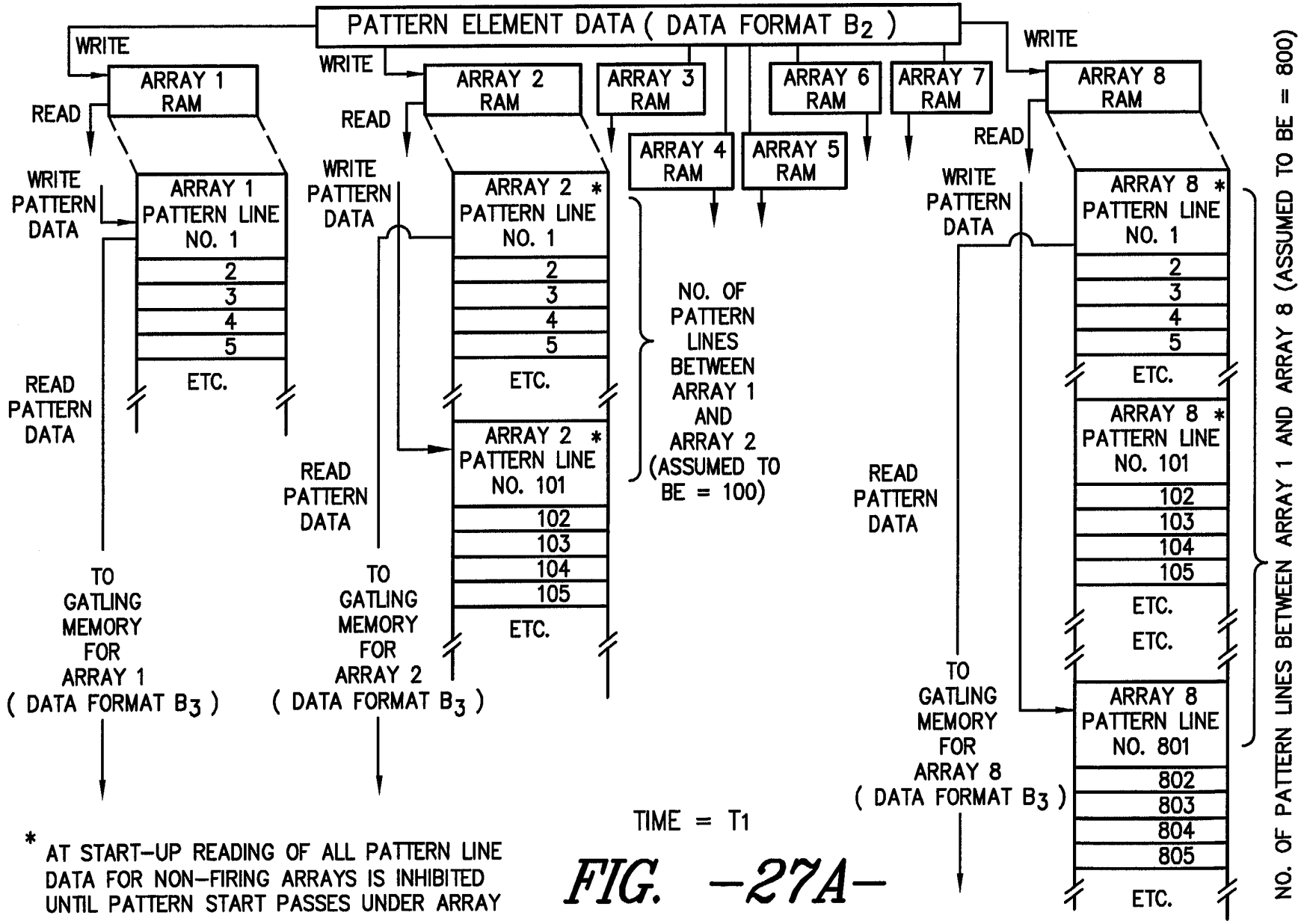


FIG. -26-

2022FD* 92thSOOT



* AT START-UP READING OF ALL PATTERN LINE DATA FOR NON-FIRING ARRAYS IS INHIBITED UNTIL PATTERN START PASSES UNDER ARRAY

FIG. -27A-

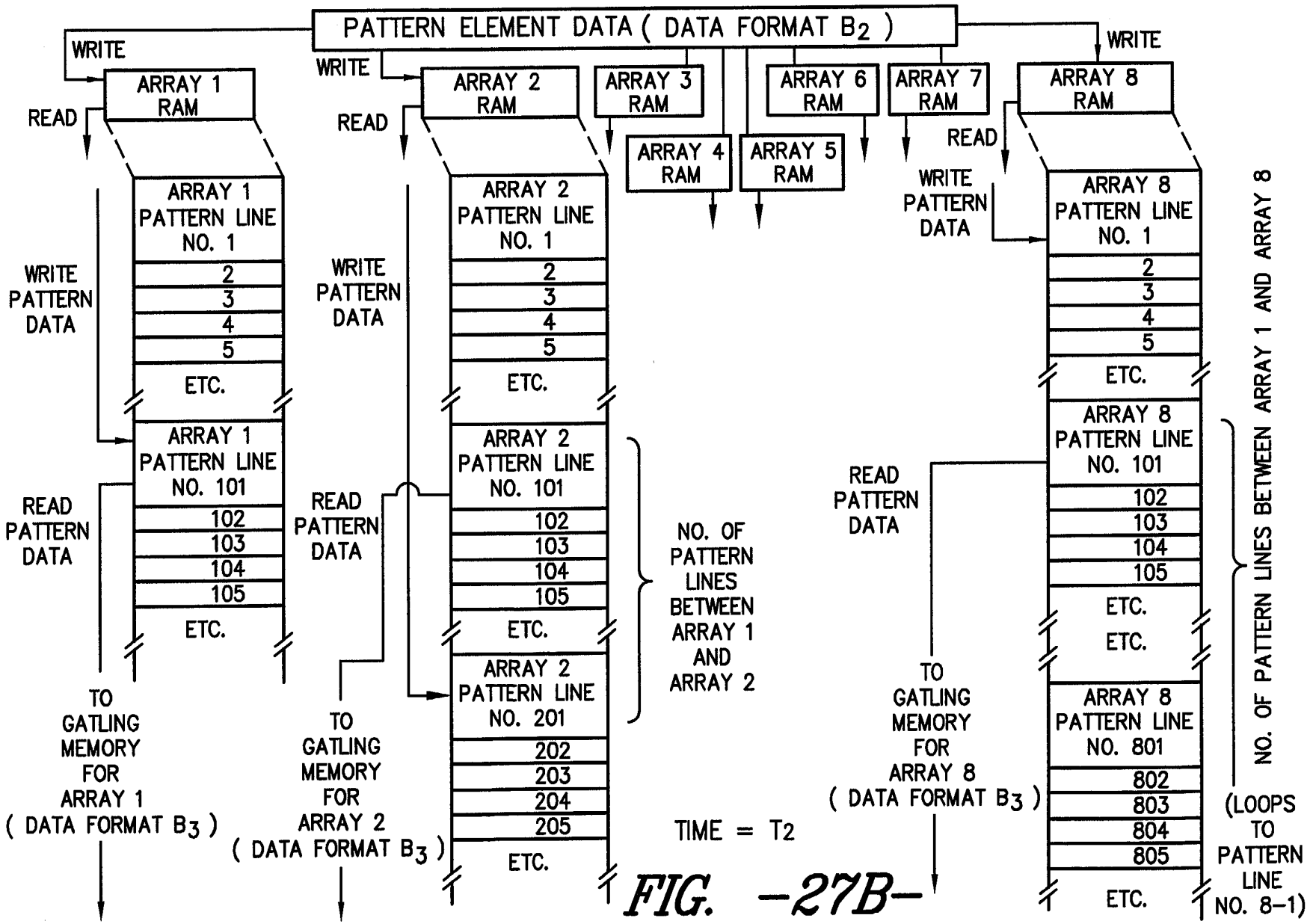

PATTERN ELEMENT DATA (DATA FORMAT B_2)
WRITE
READ
ARRAY 1 RAM
ARRAY 2 RAM
ARRAY 3 RAM
ARRAY 4 RAM
ARRAY 5 RAM
ARRAY 6 RAM
ARRAY 7 RAM
ARRAY 8 RAM
WRITE PATTERN DATA
READ PATTERN DATA
ARRAY 1 PATTERN LINE NO. 1
2
3
4
5
ETC.
ARRAY 1 PATTERN LINE NO. 101
102
103
104
105
ETC.
ARRAY 2 PATTERN LINE NO. 1
ARRAY 2 PATTERN LINE NO. 101
ARRAY 2 PATTERN LINE NO. 201
202
203
204
205
ARRAY 8 PATTERN LINE NO. 1
ARRAY 8 PATTERN LINE NO. 101
ARRAY 8 PATTERN LINE NO. 801
802
803
804
805
NO. OF PATTERN LINES BETWEEN ARRAY 1 AND ARRAY 2
NO. OF PATTERN LINES BETWEEN ARRAY 1 AND ARRAY 8
(LOOPS TO PATTERN LINE NO. 8-1)
TO GATLING MEMORY FOR ARRAY 1 (DATA FORMAT B_3)
TO GATLING MEMORY FOR ARRAY 2 (DATA FORMAT B_3)
TO GATLING MEMORY FOR ARRAY 8 (DATA FORMAT B_3)
TIME = T2

FIG. -27B-

2022TO" S2thSOOT

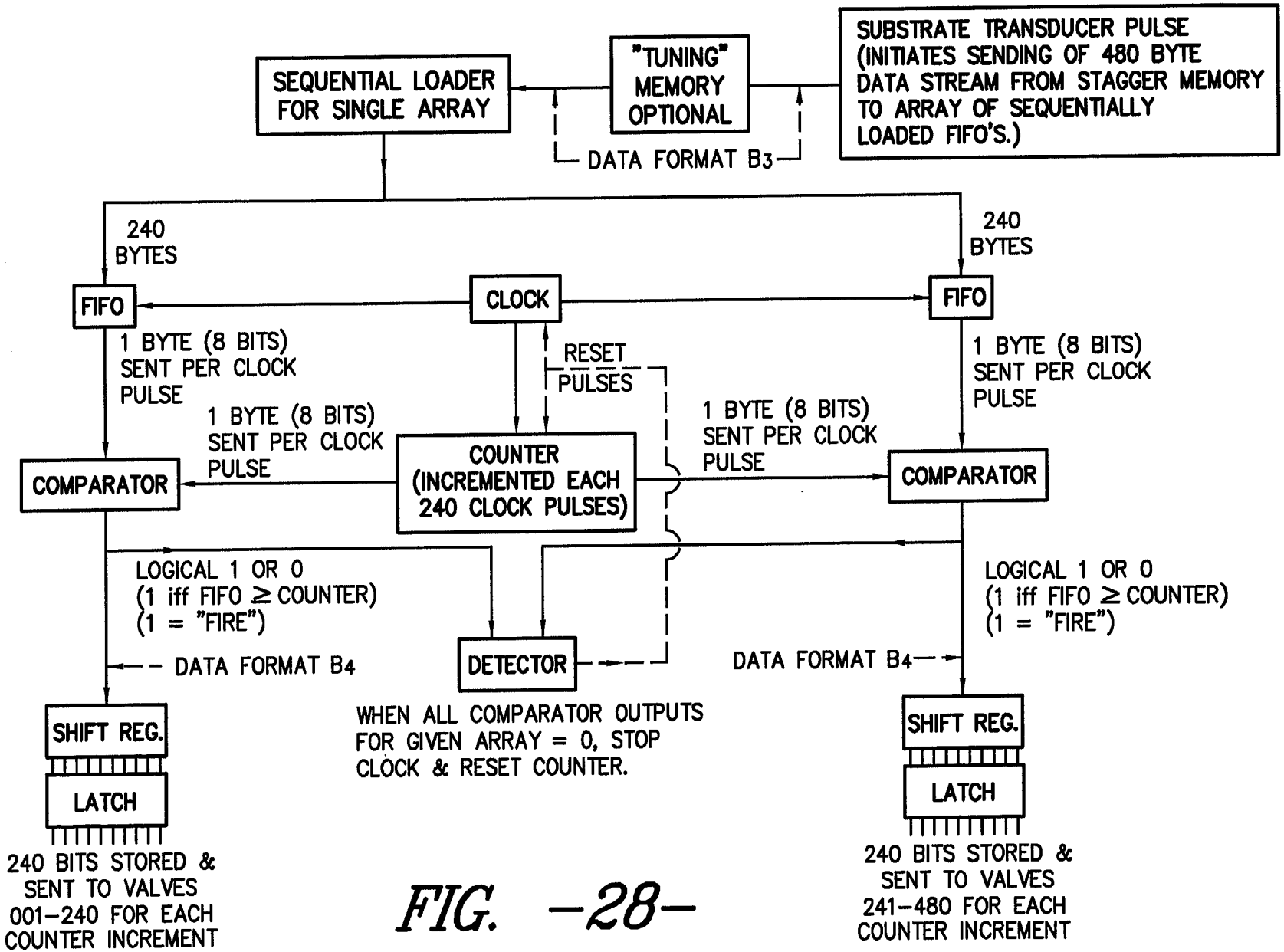
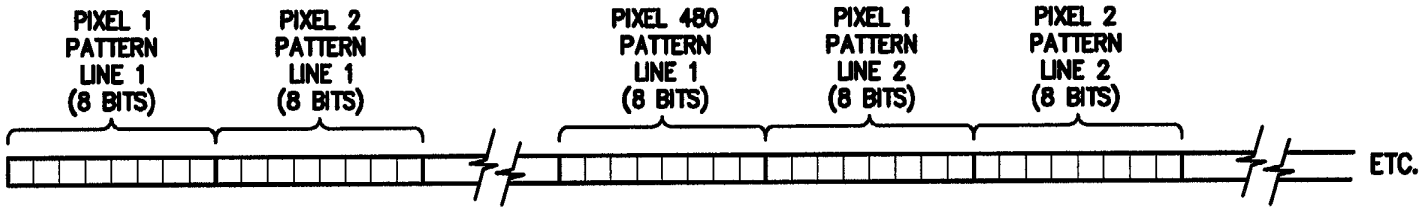


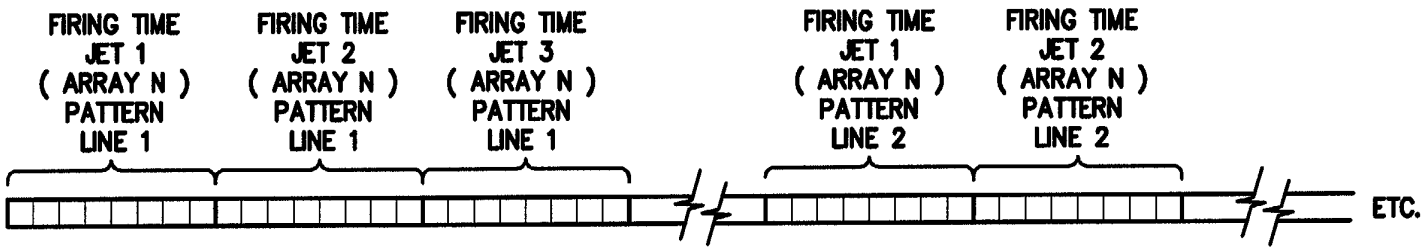
FIG. –28–

2022TO"52thSOOT

DATA FORMAT B_1 :
(OUTPUT FROM PATTERN DATA SOURCE)
8 BIT GROUP DEFINES 1 OF 256 PRE-DEFINED PATTERN ELEMENTS



DATA FORMAT B_2 :
(OUTPUT FROM PATTERN DATA SOURCE)
EACH 8 BIT GROUP DEFINES 1 OF 256 POSSIBLE FIRING TIMES



DATA FORMAT B_3 :
(OUTPUT FROM STAGGER MEMORY)
DATA HAS BEEN RESEQUENCED/DELAYED TO ACCOMODATE INTER-ARRAY SPACING

DATA FORMAT SAME AS B_2

DATA FORMAT B_4 :
(OUTPUT FROM PATTERN DATA SOURCE)
EACH BIT INDICATES "FIRE / NO FIRE" COMMAND FOR GIVEN ARRAY

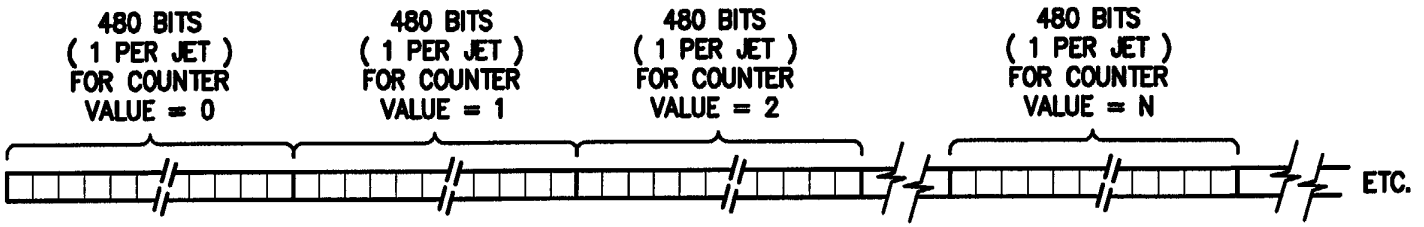


FIG. -29-

3022TO' 52hh5001

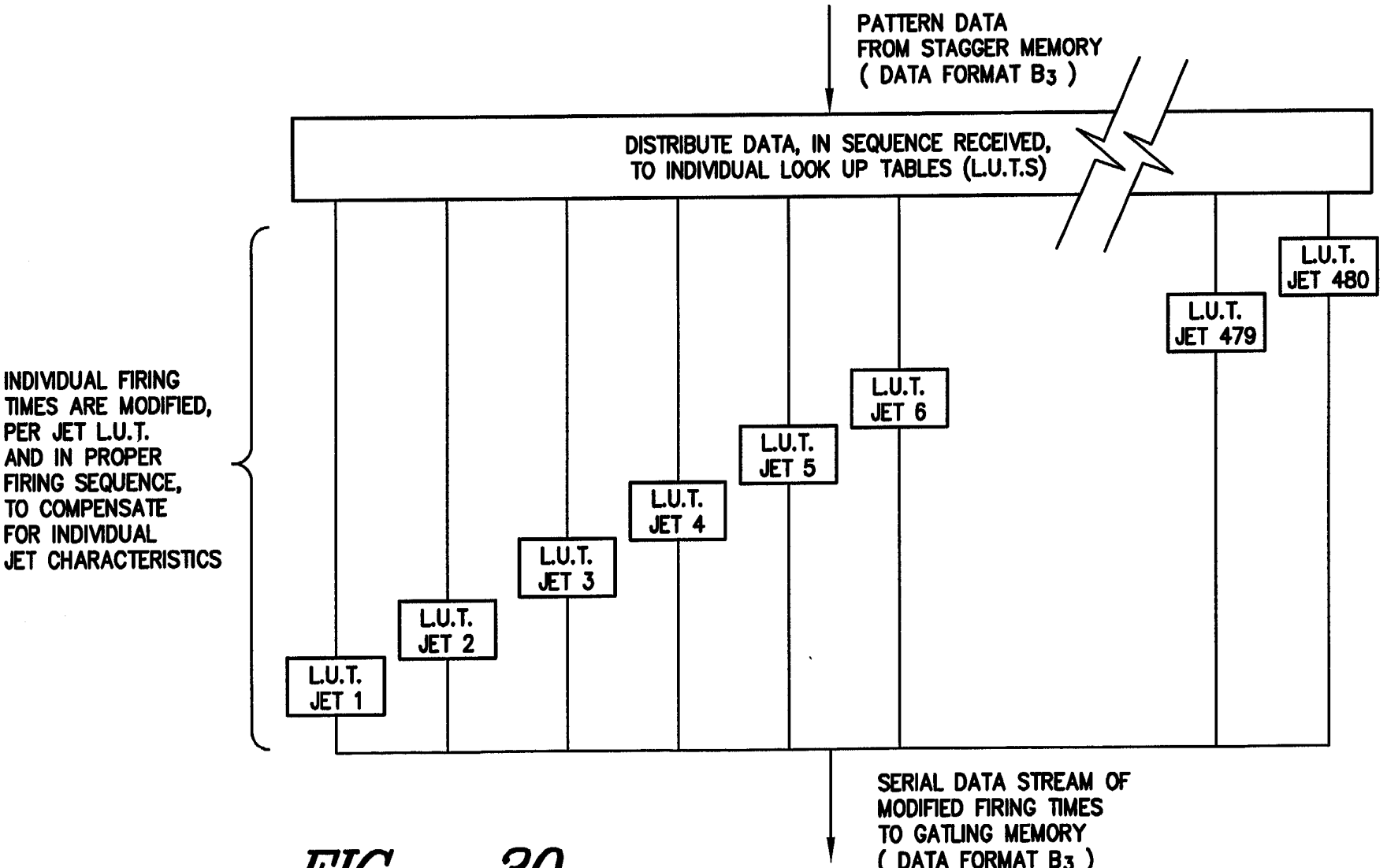


FIG. -30-